

FIG. 1A

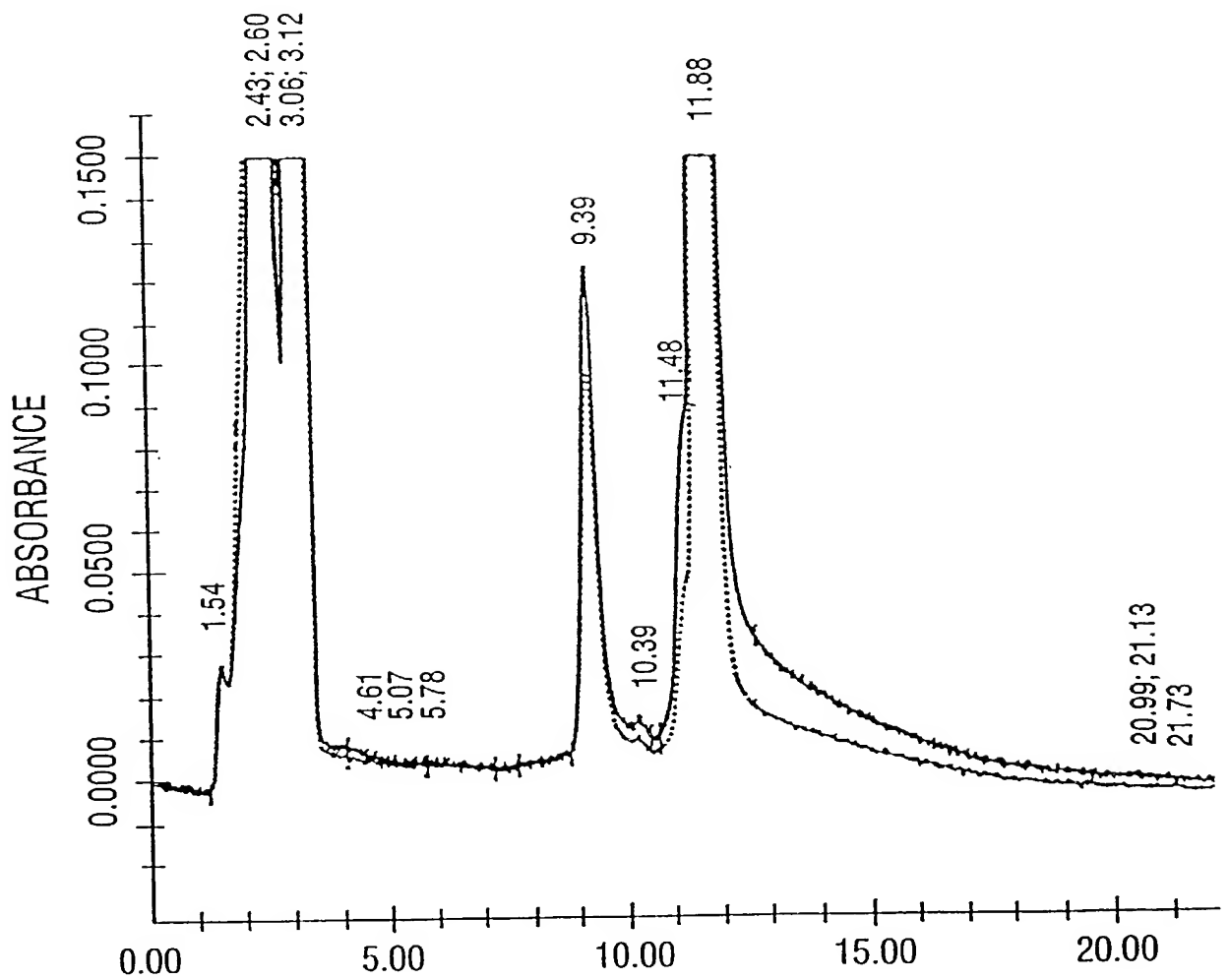


FIG. 1B

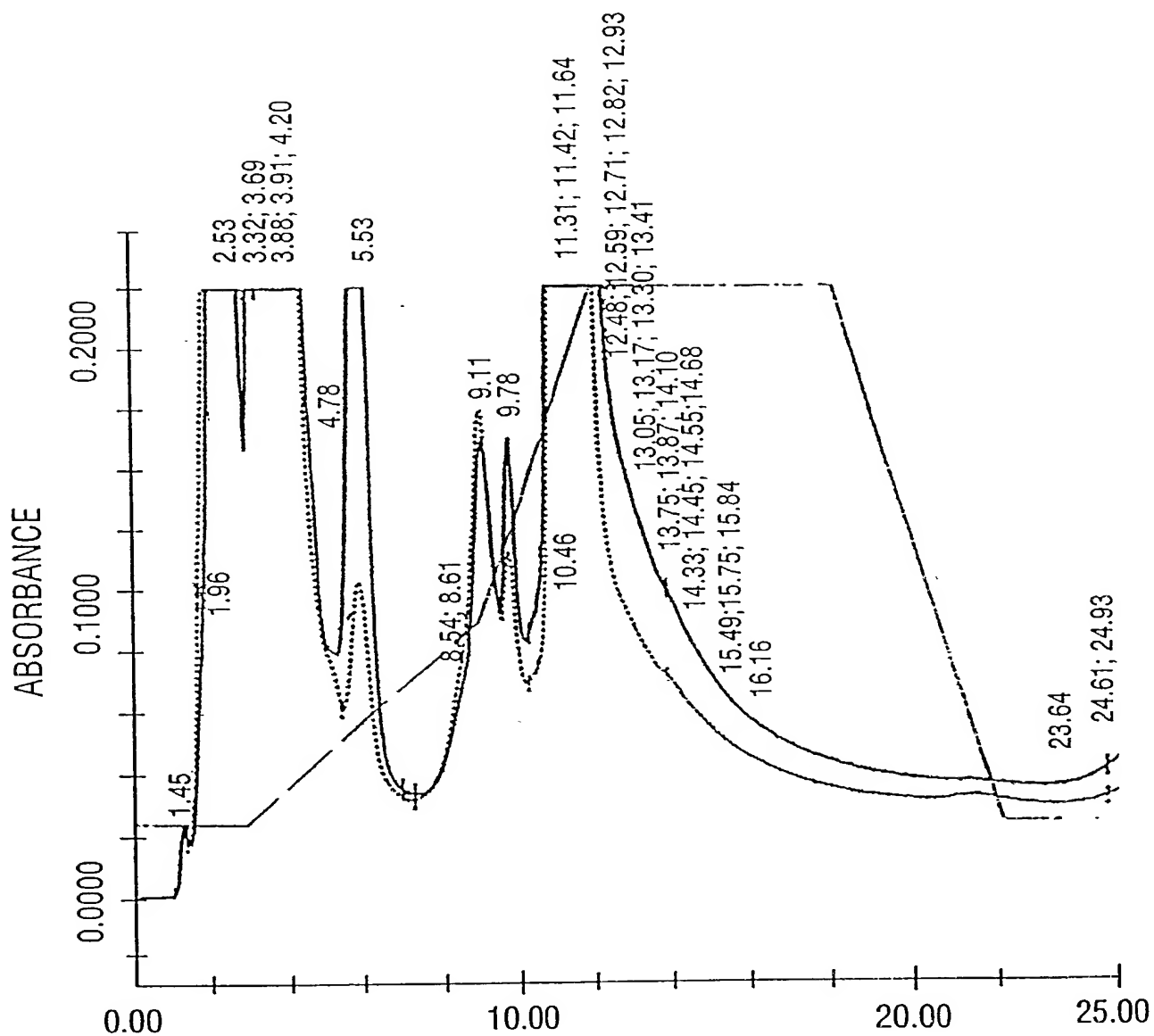


FIG. 2

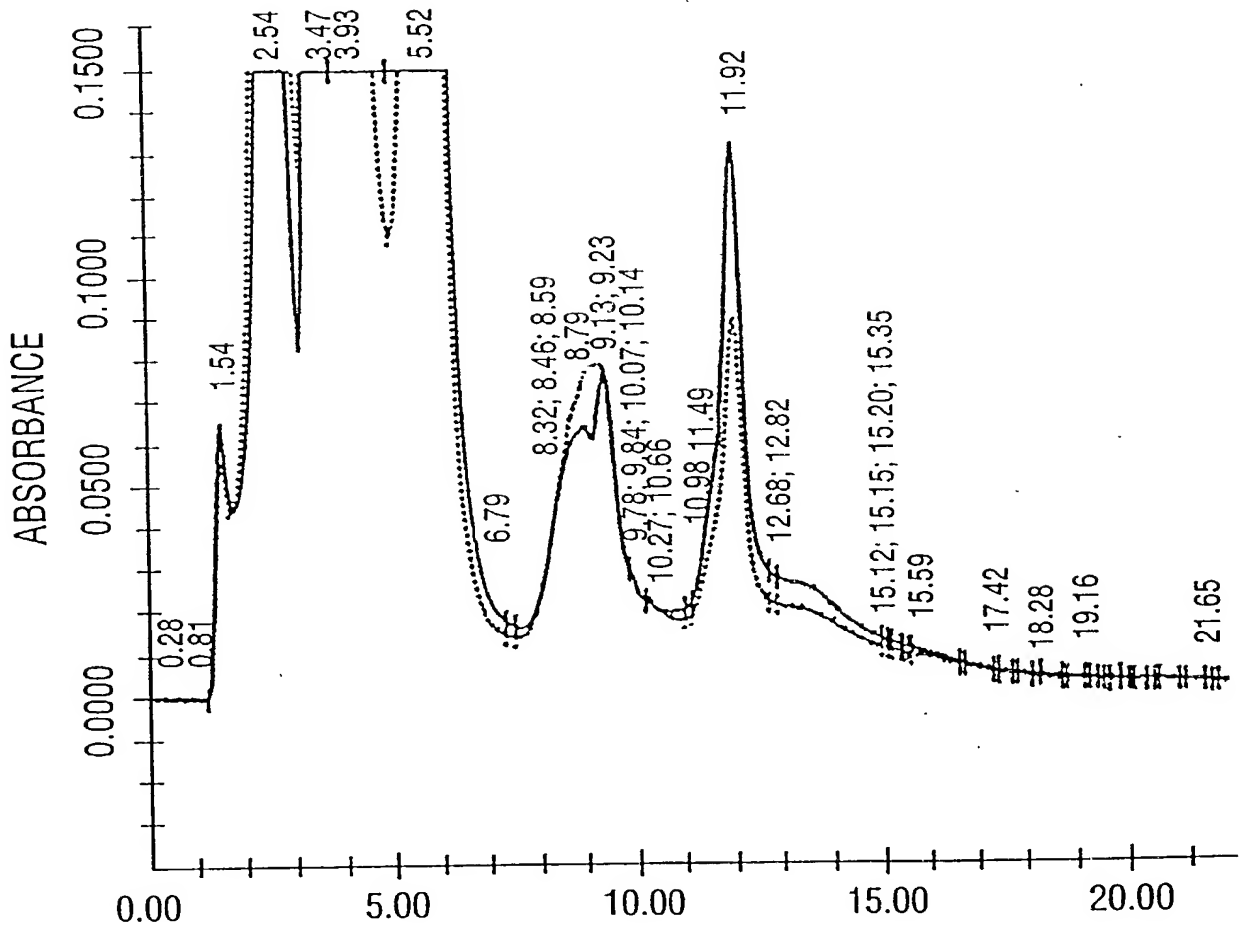


FIG. 3B

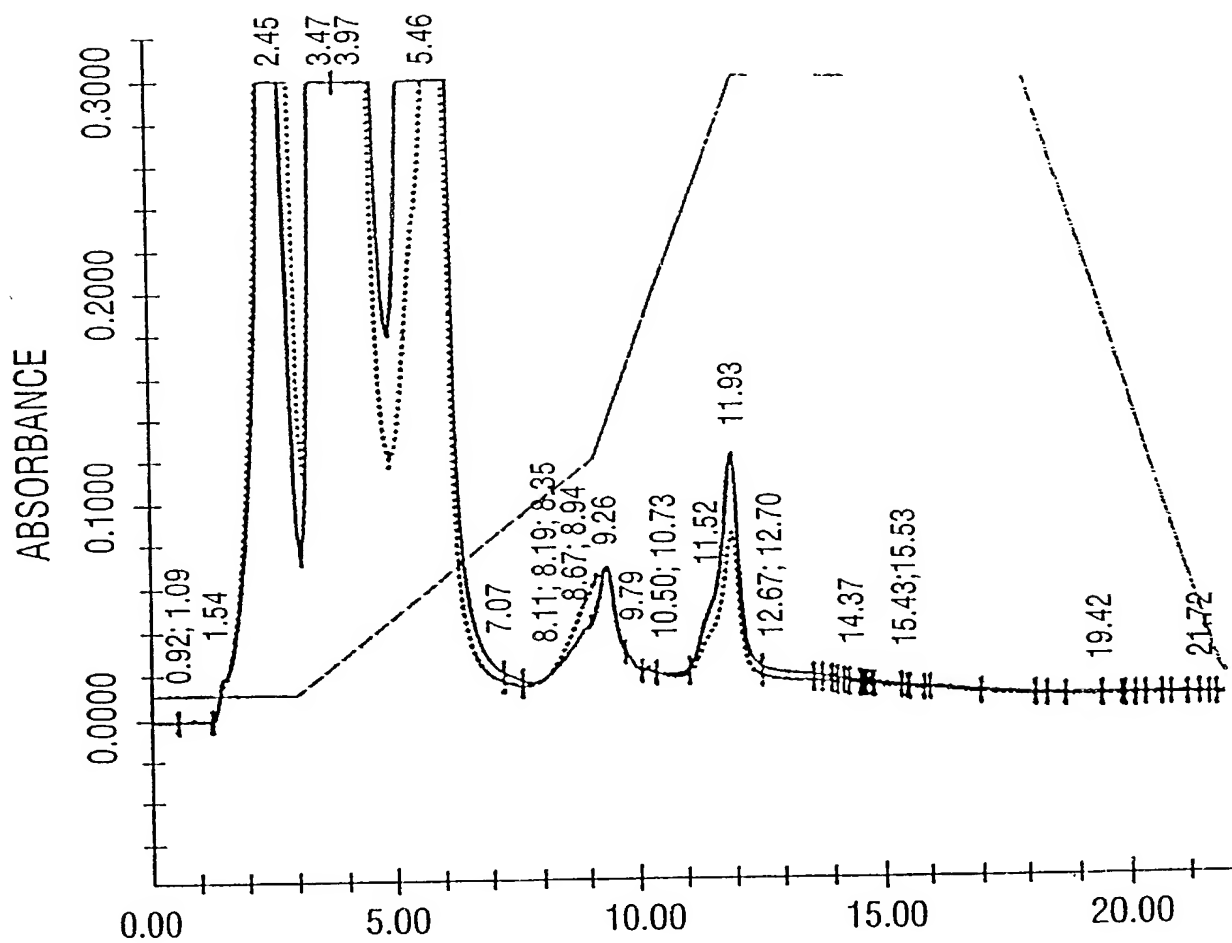


FIG. 3C

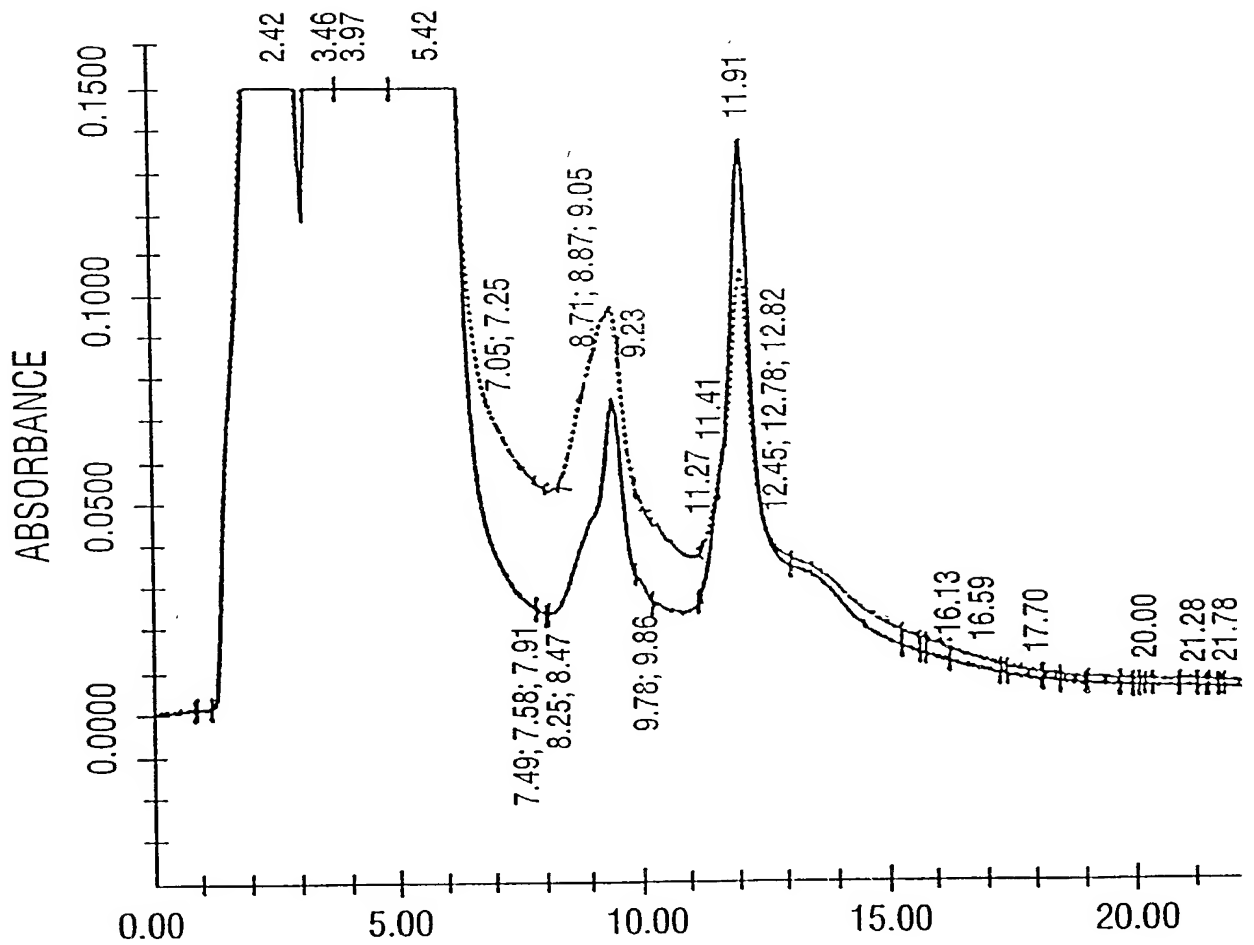


FIG. 3D

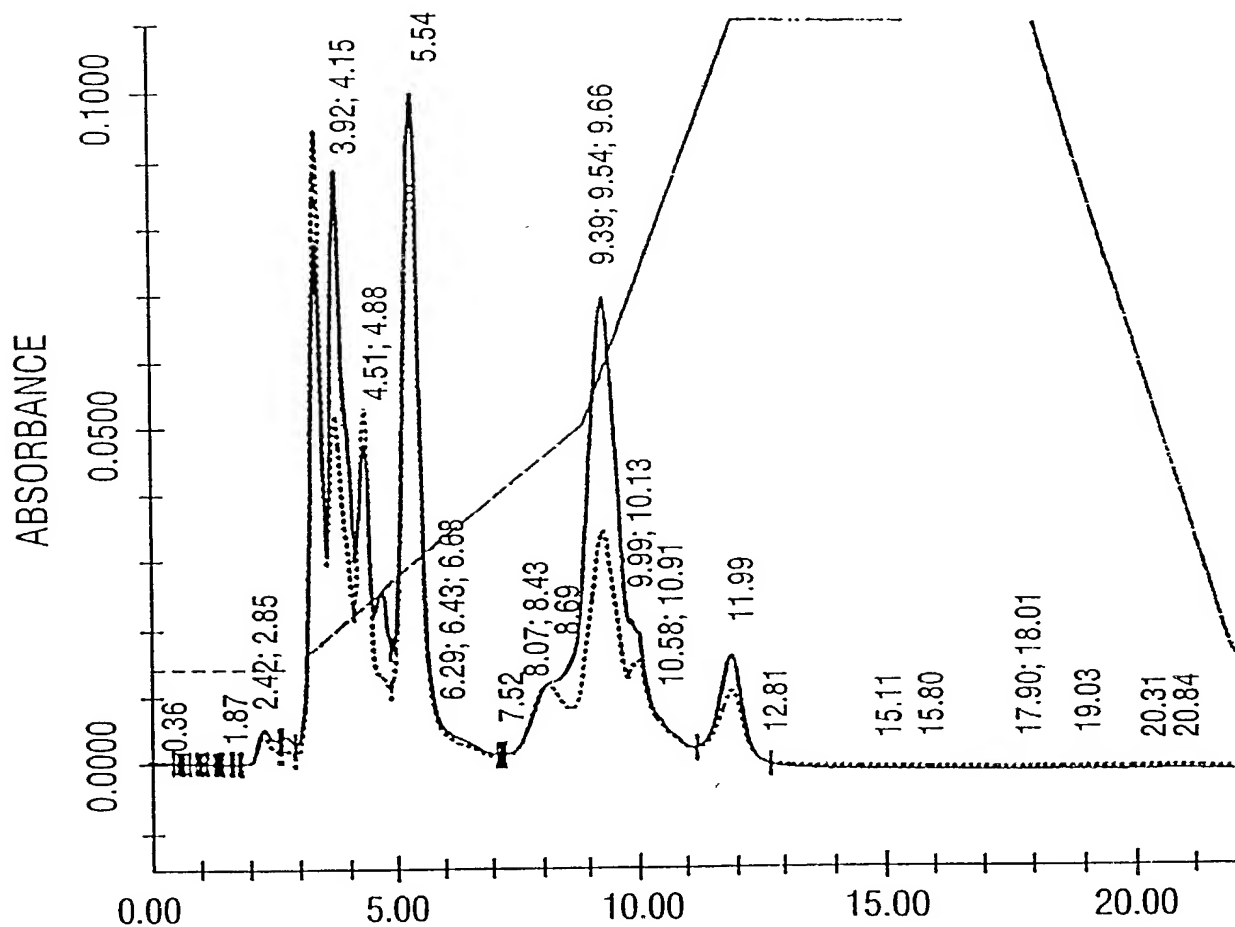


FIG. 3E

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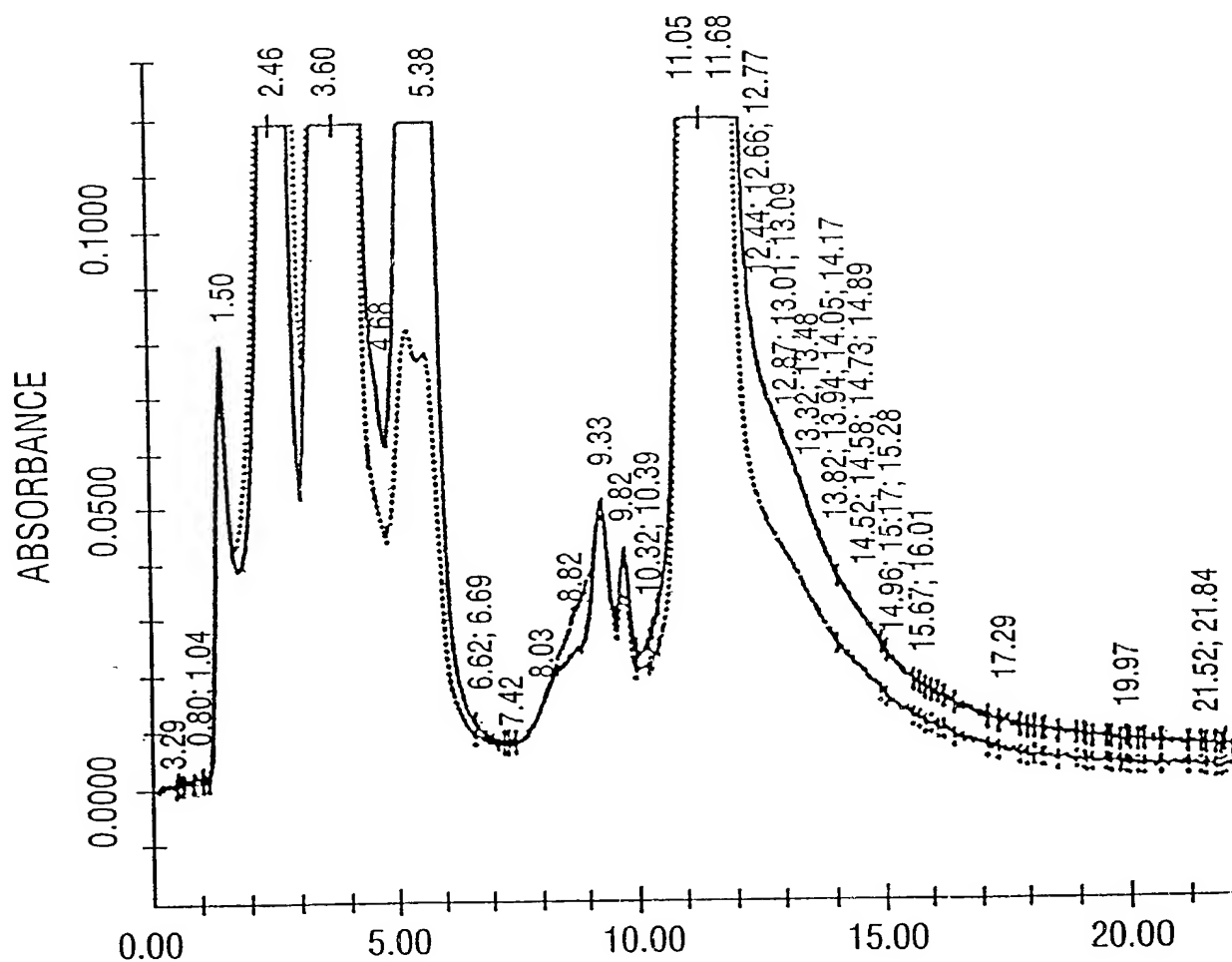


FIG. 4A

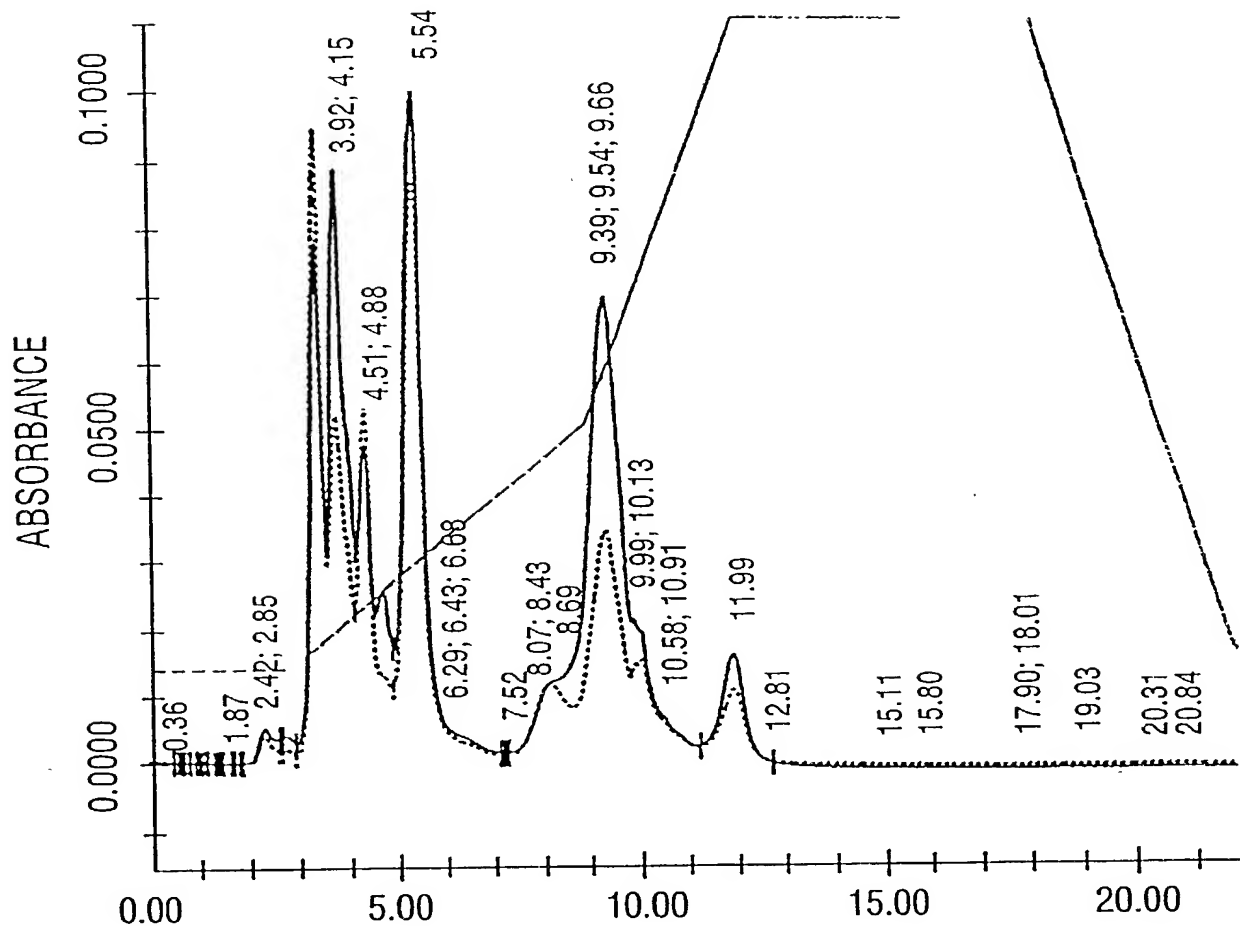


FIG. 4B

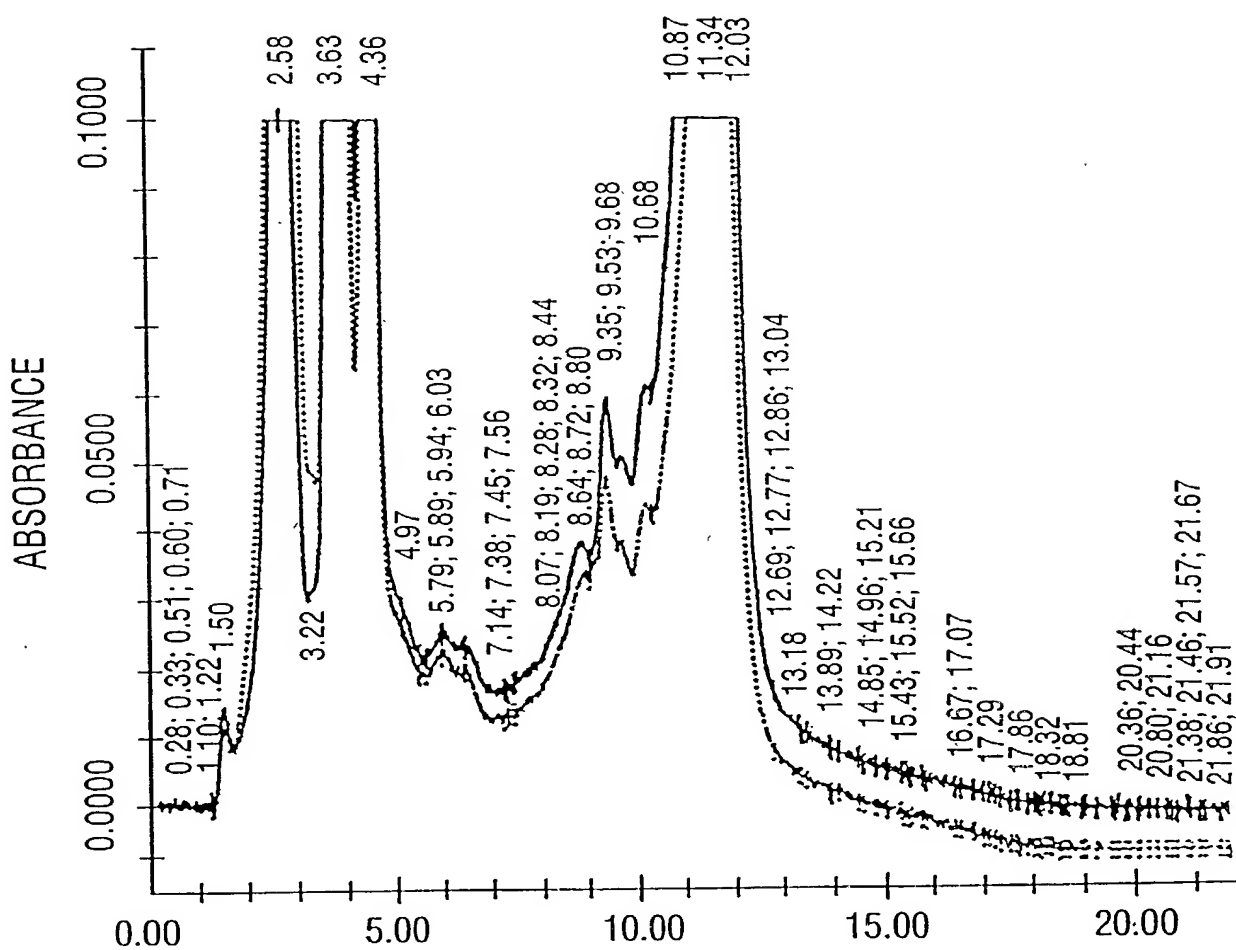


FIG. 5

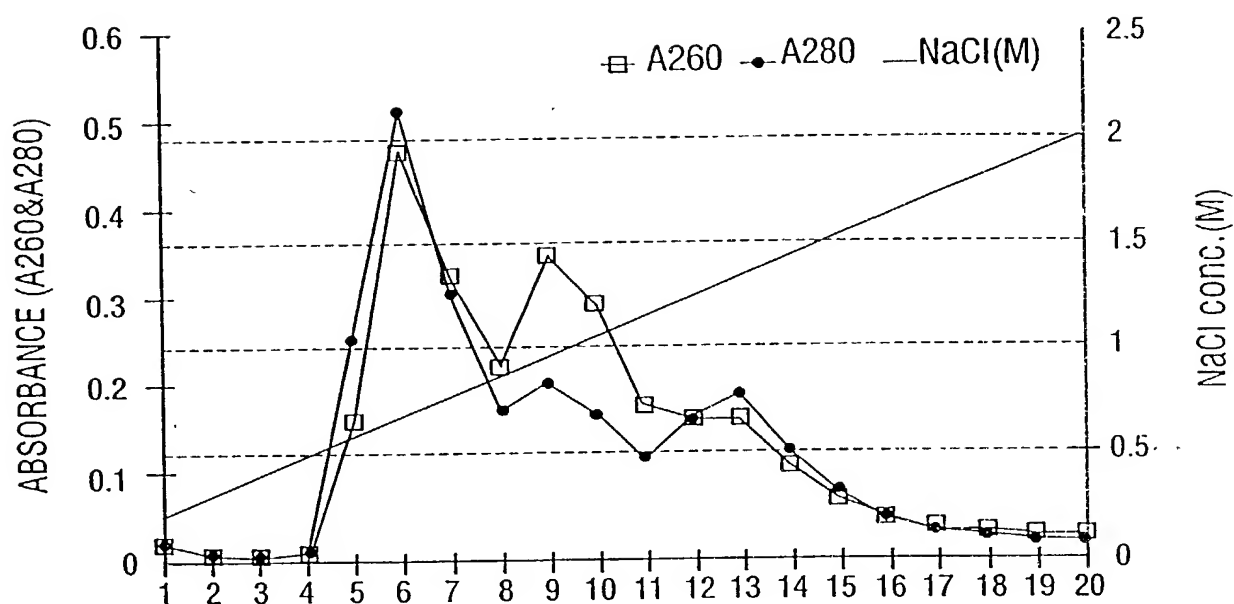


FIG. 6

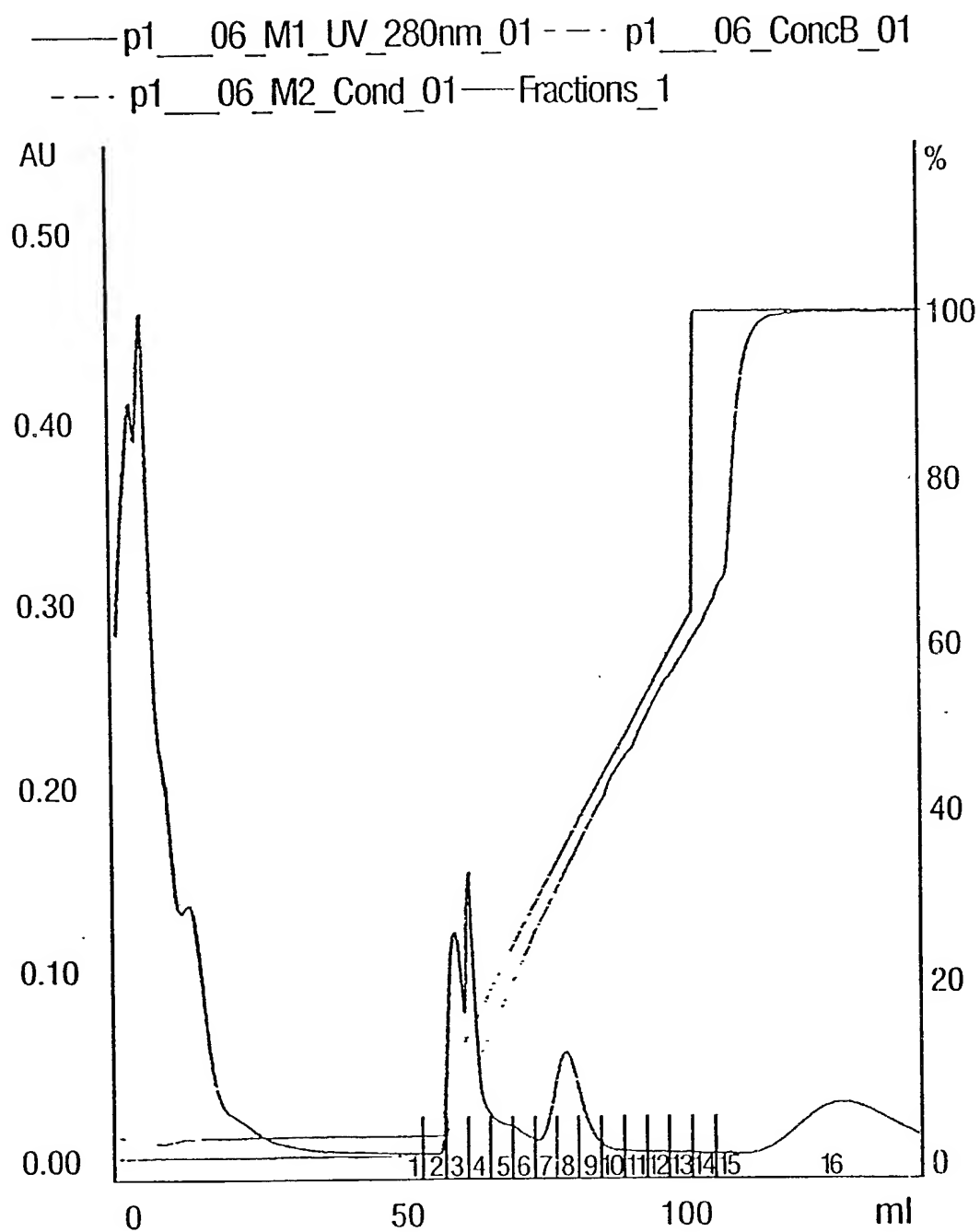


FIG. 7

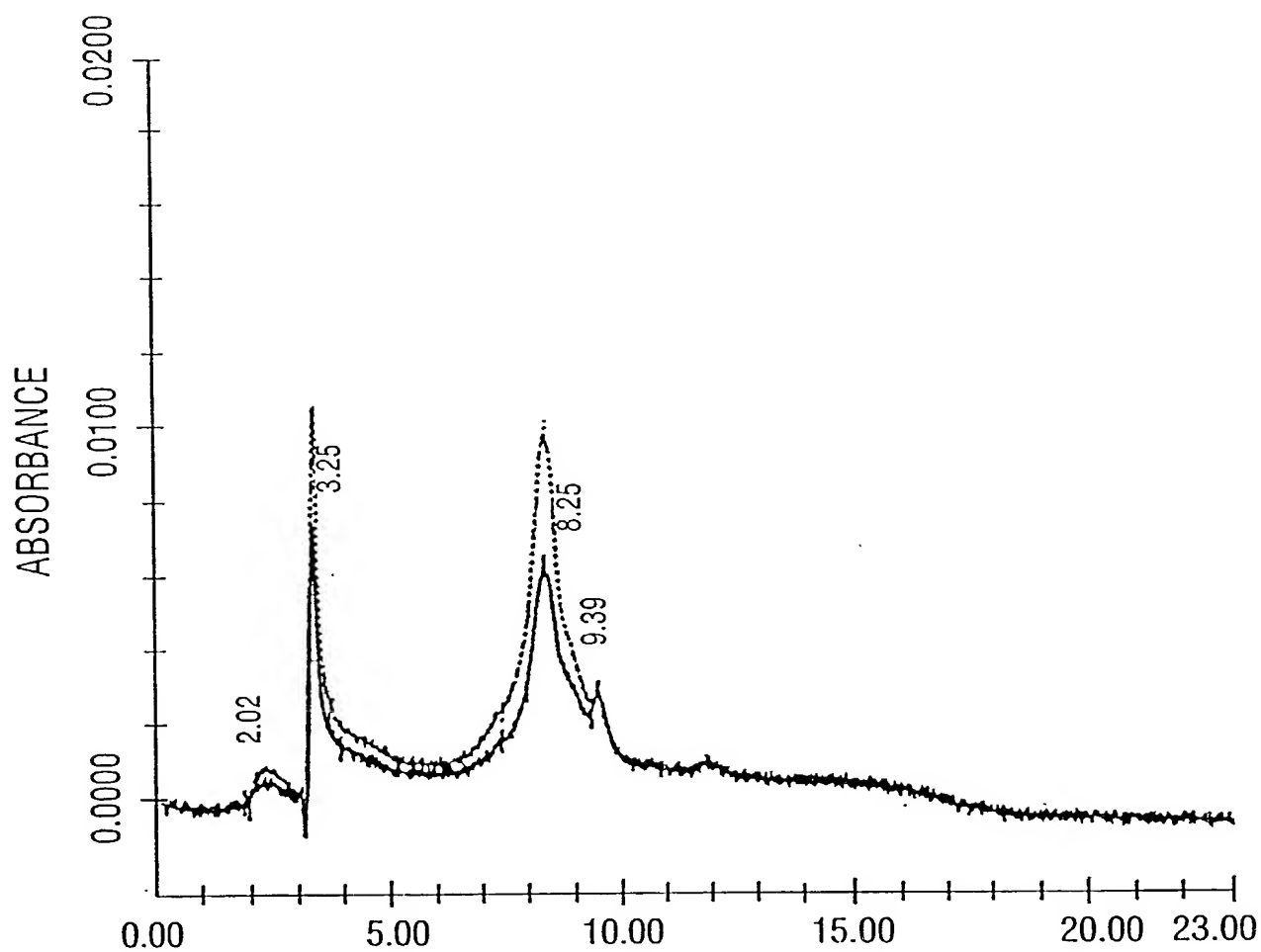


FIG. 8A

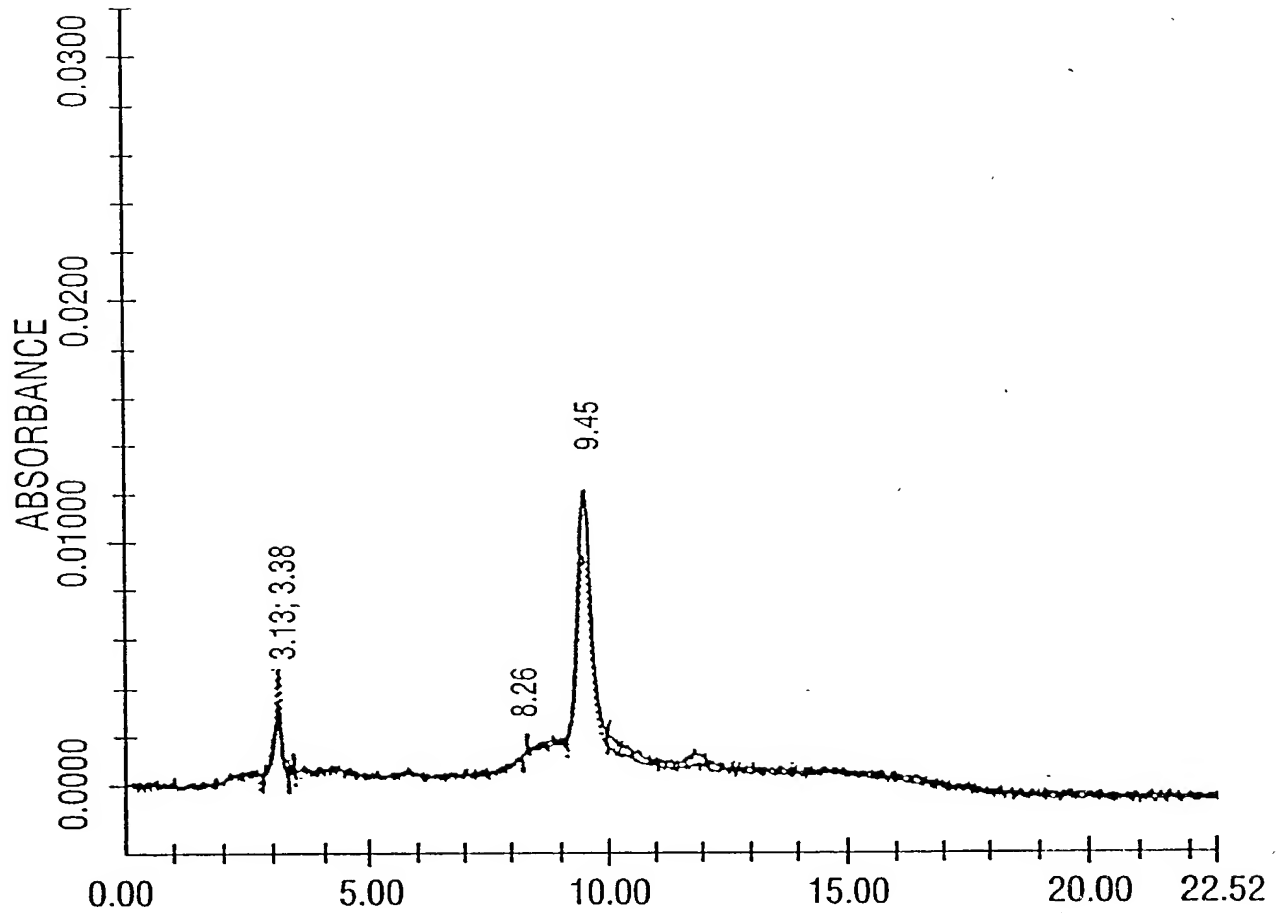


FIG. 8B

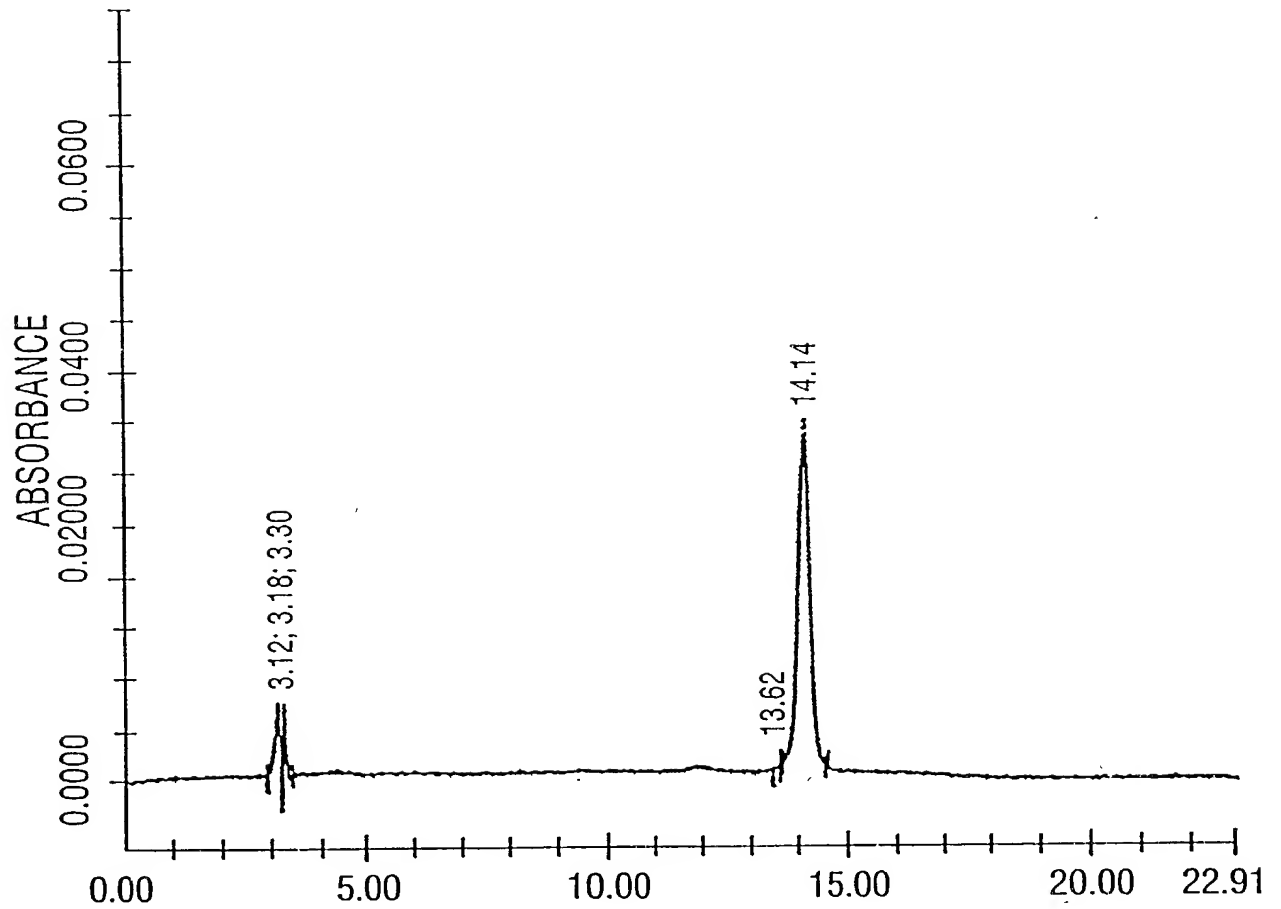


FIG. 8C

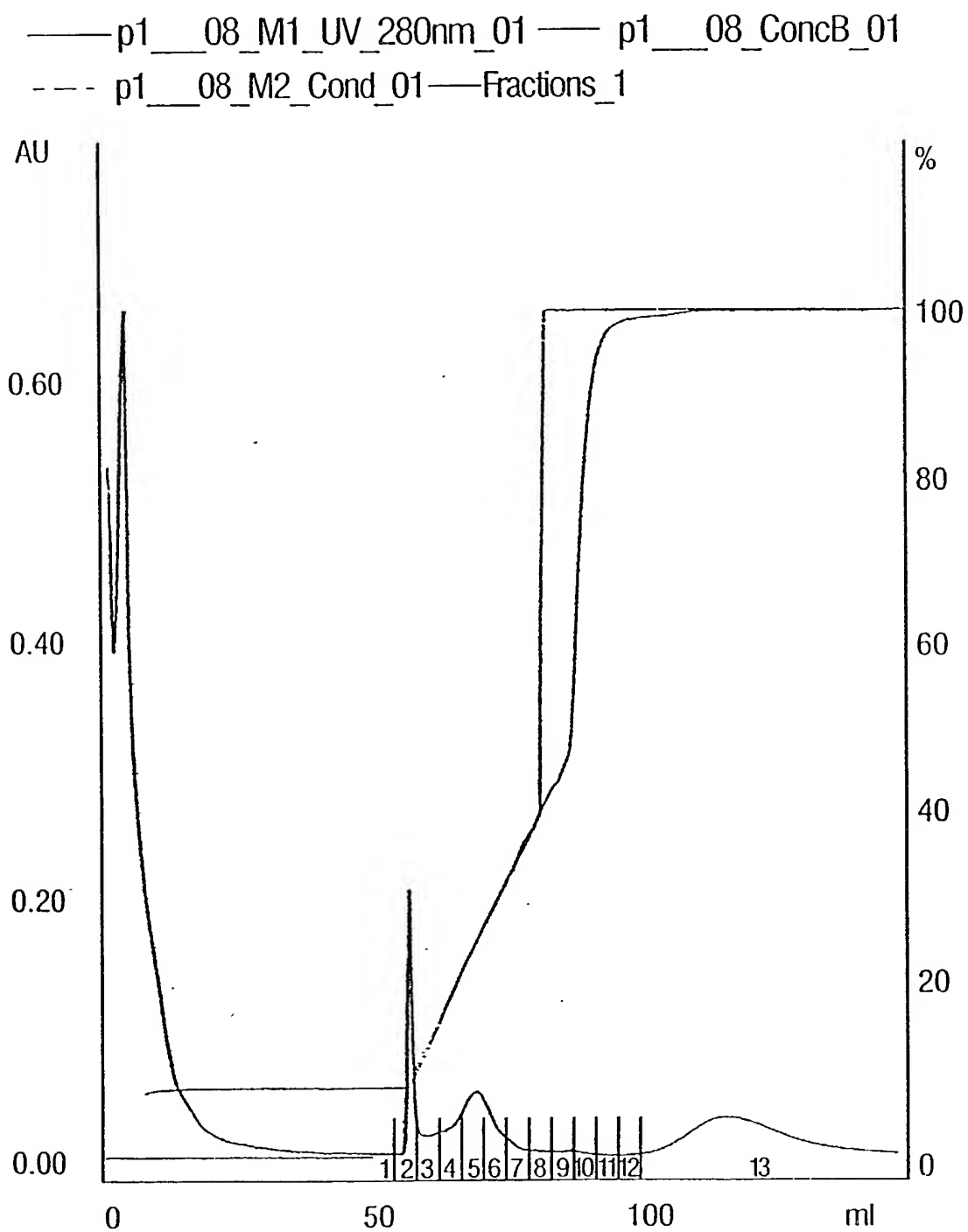


FIG. 9

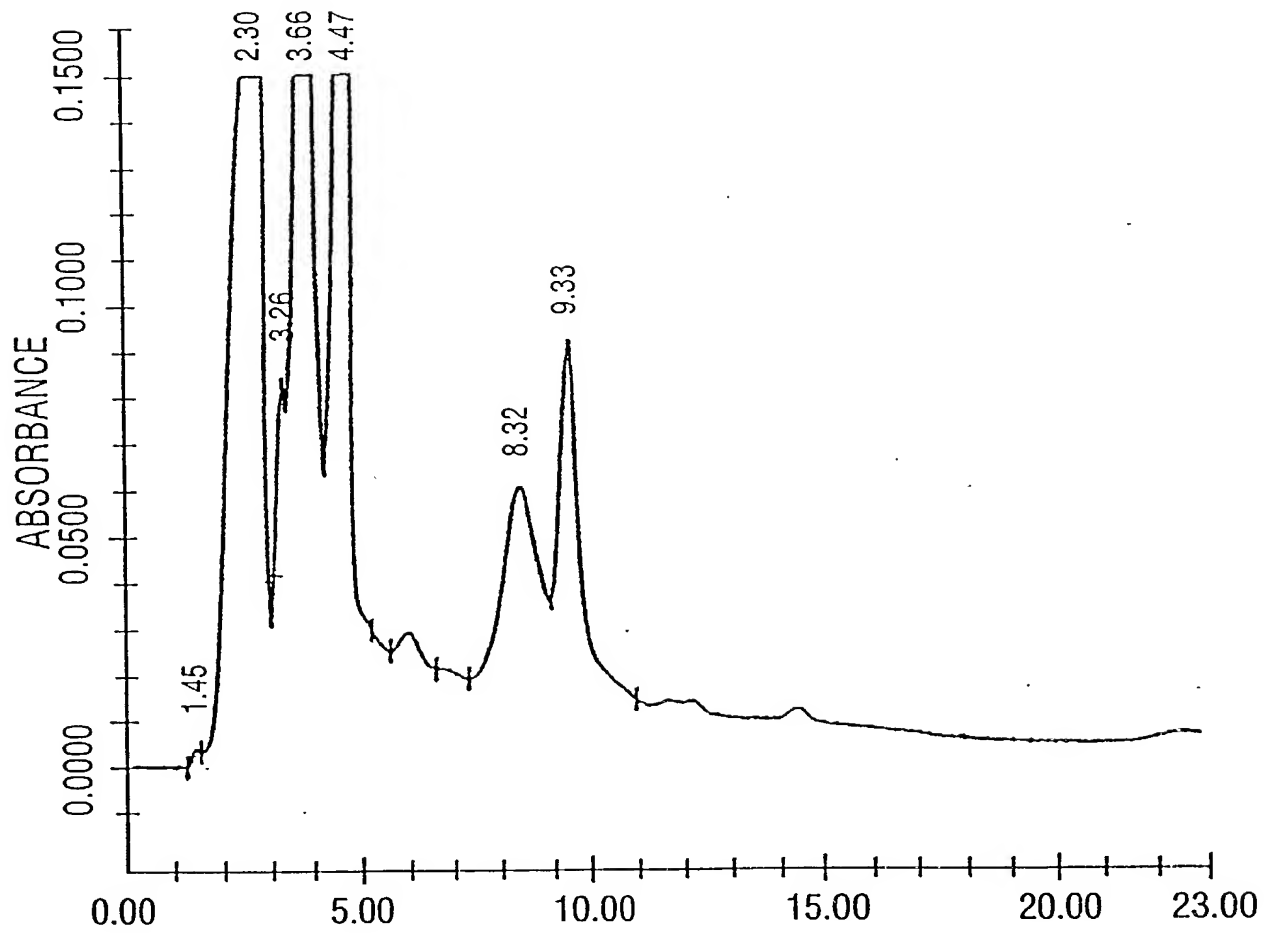


FIG. 10A

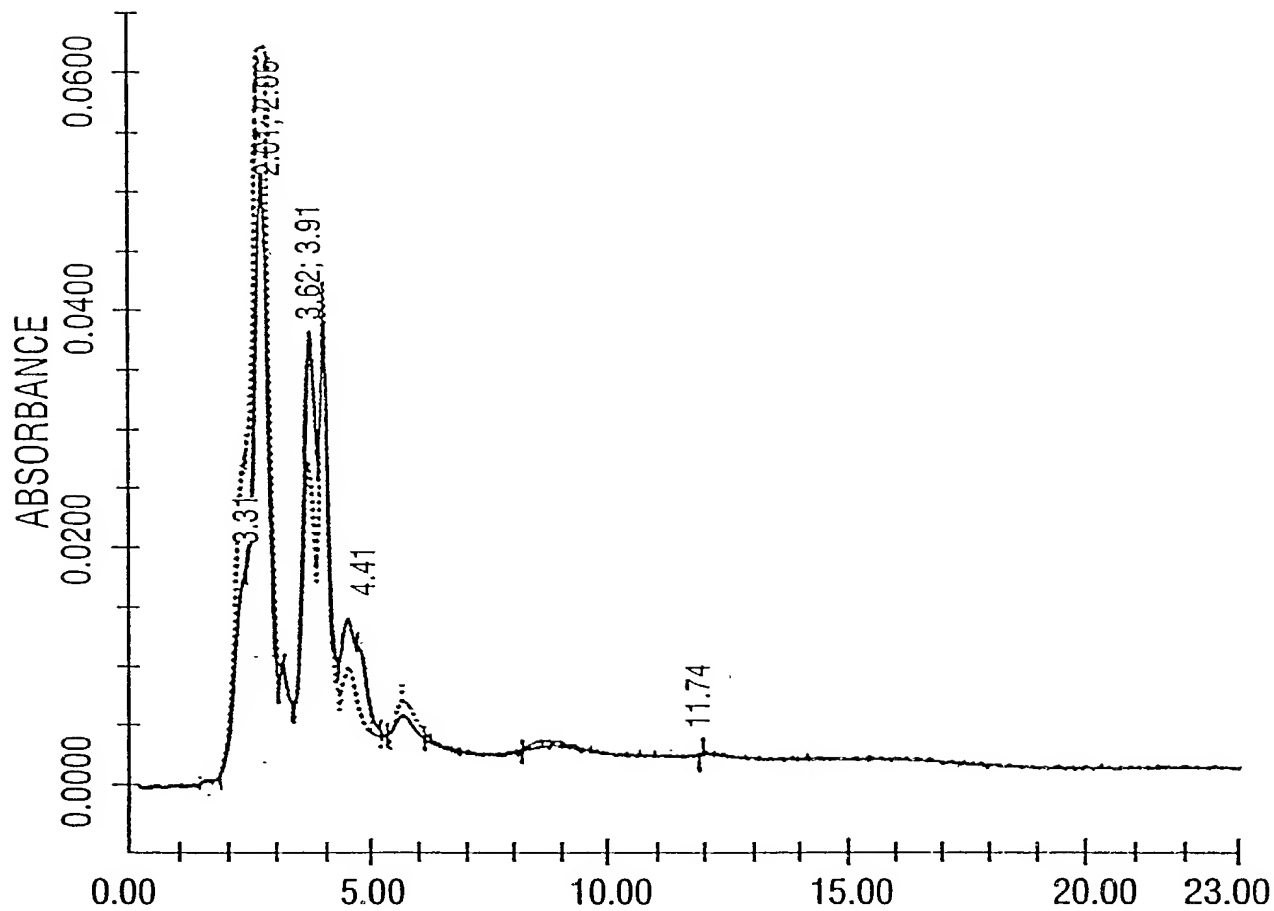


FIG. 10B

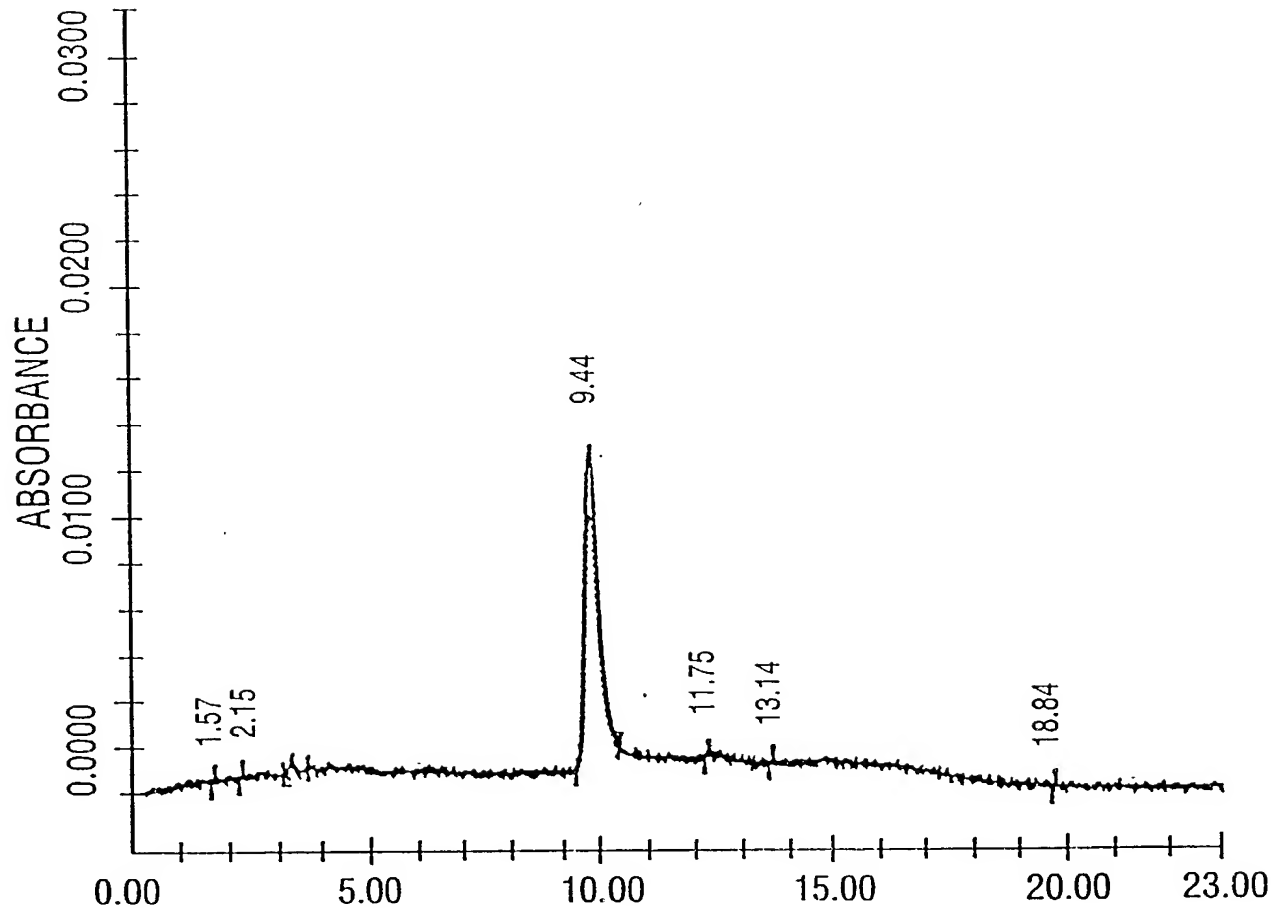


FIG. 10C

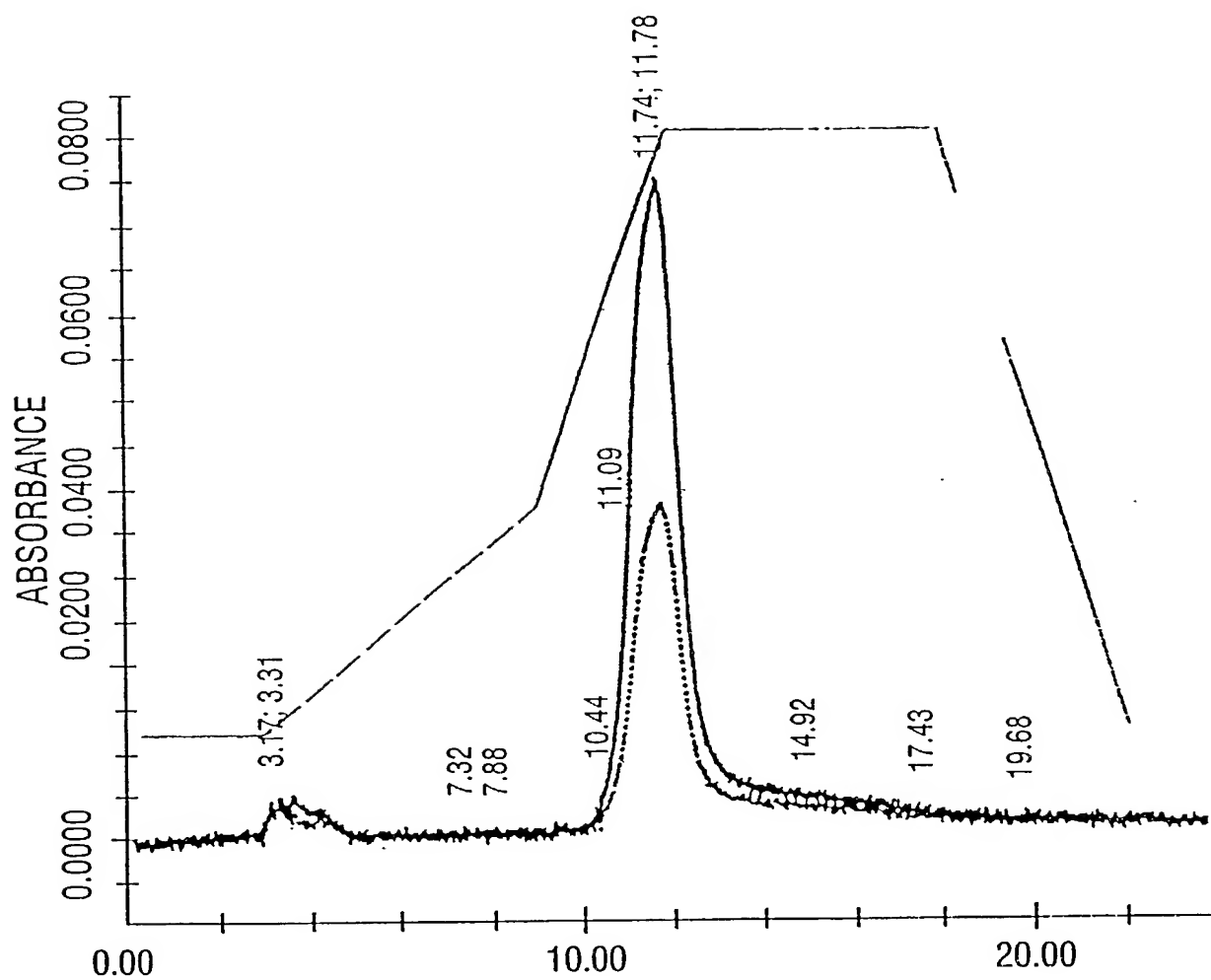


FIG. 10D

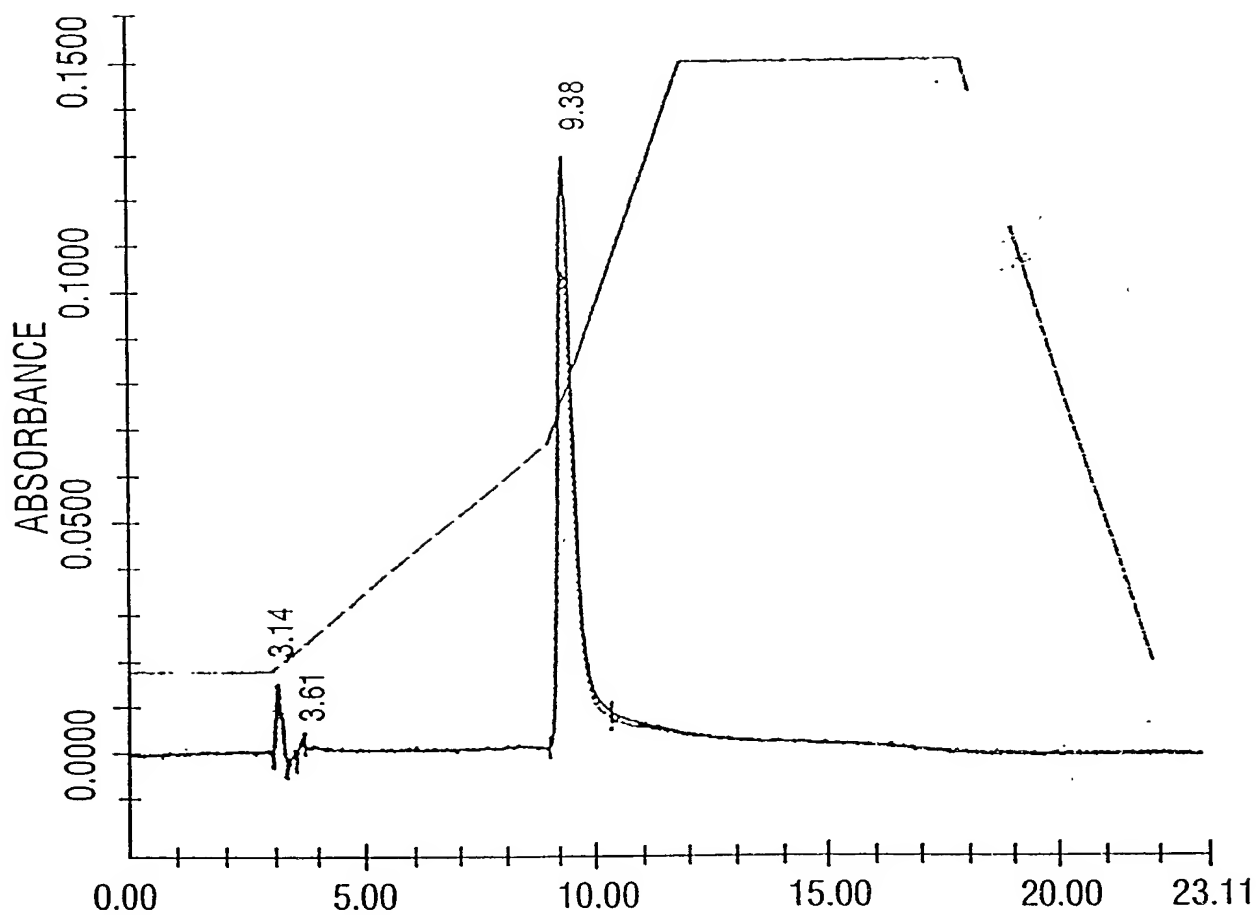


FIG. 10E

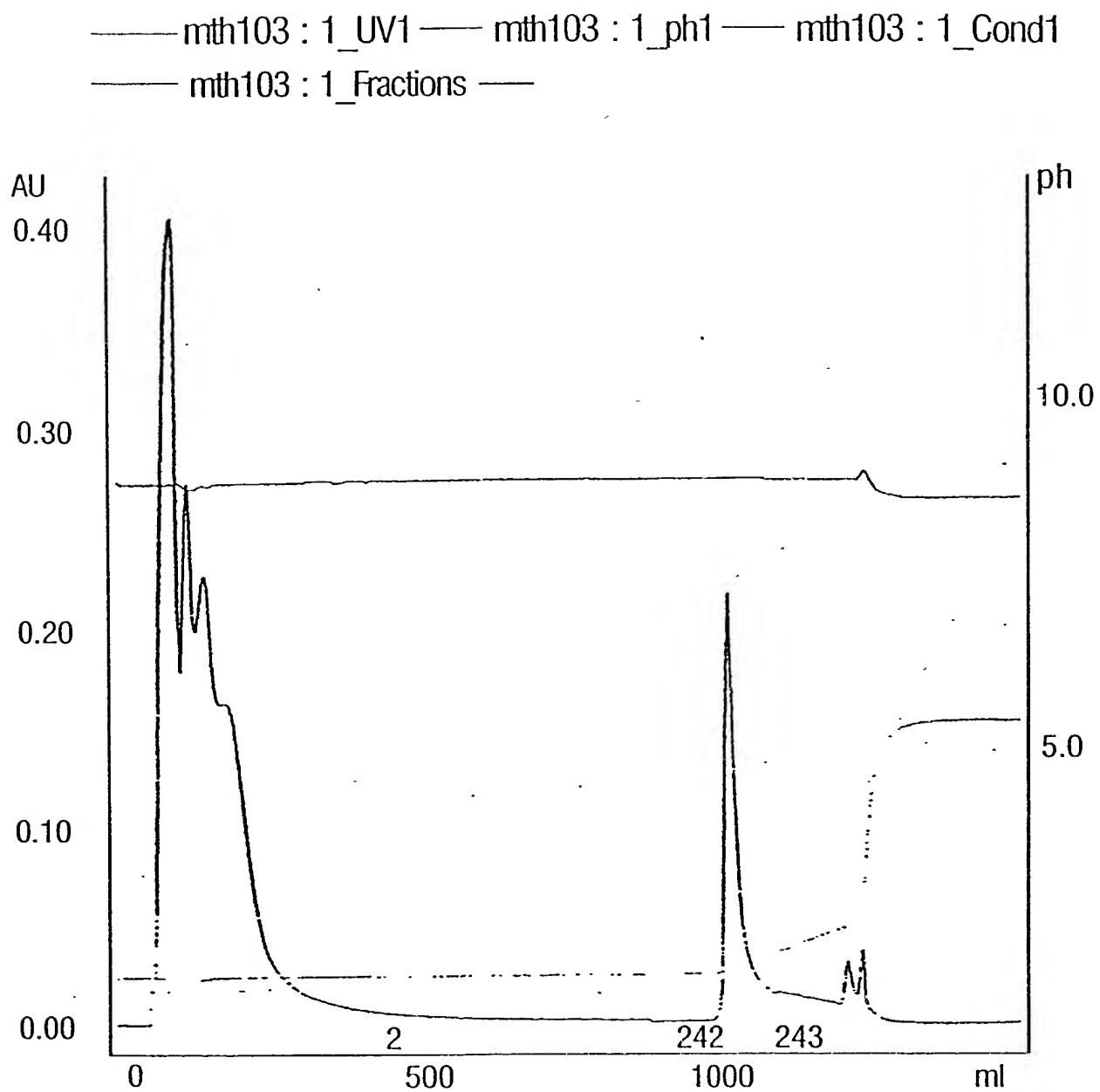


FIG. 11

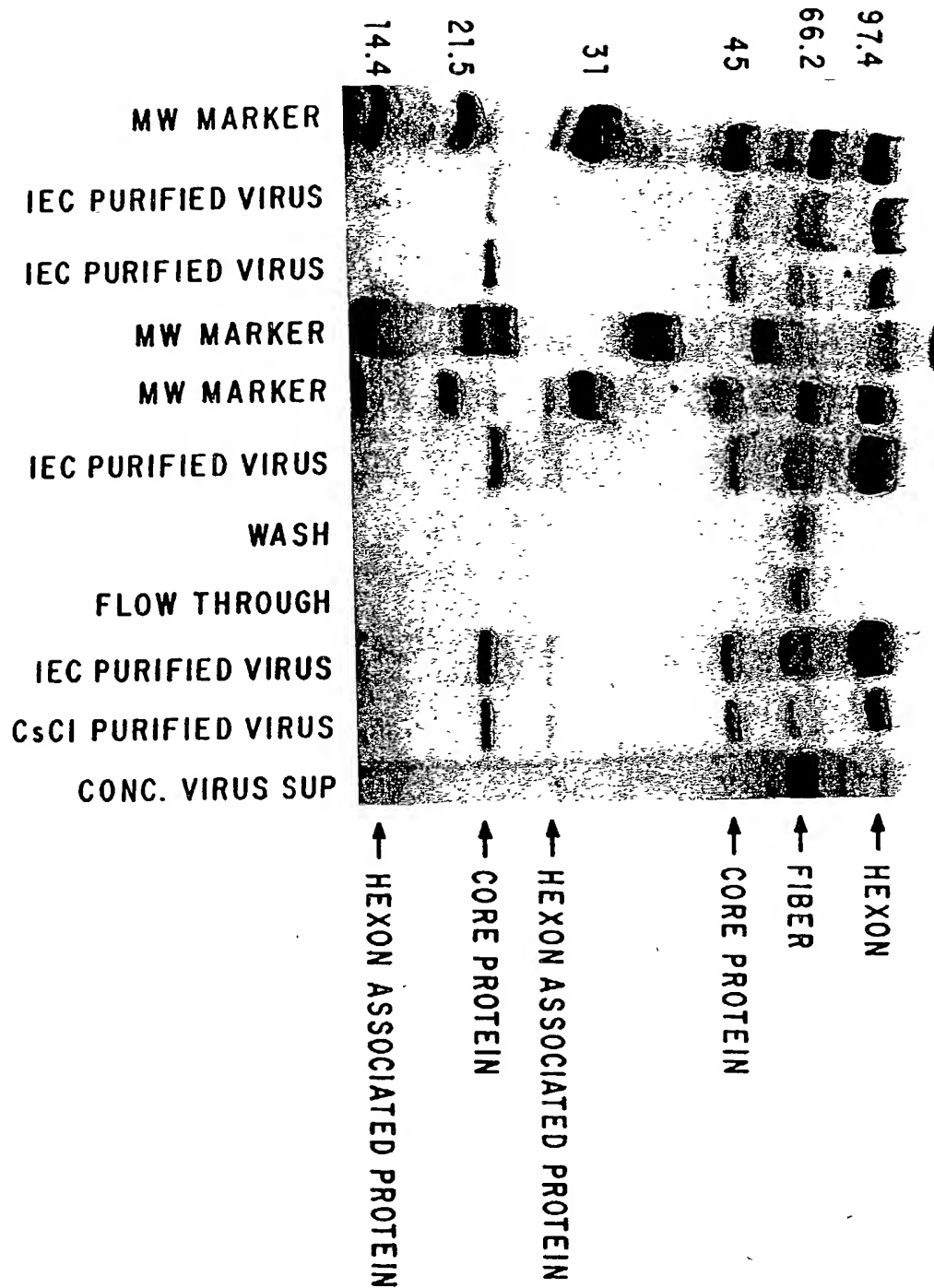


FIG.12

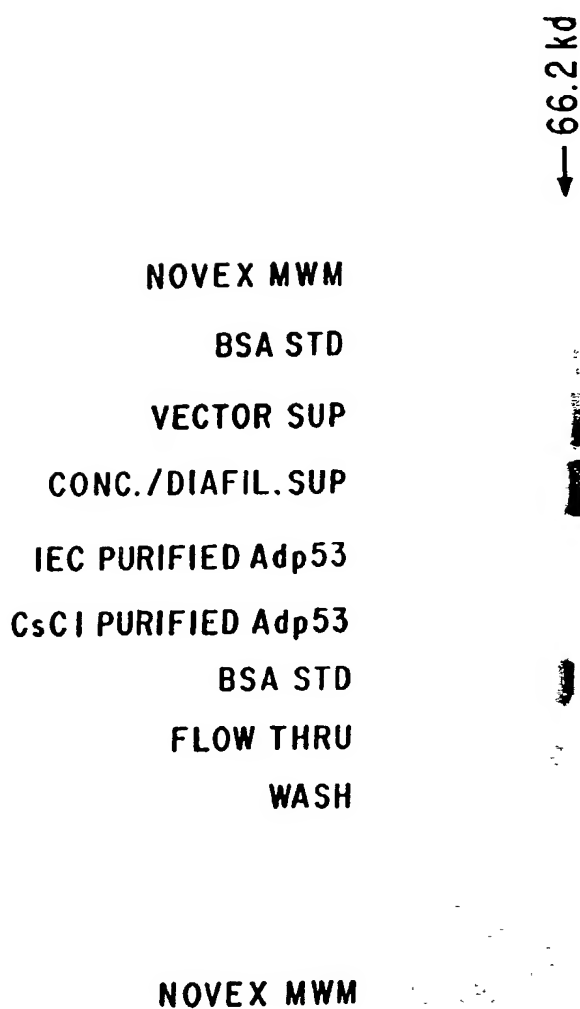


FIG.13

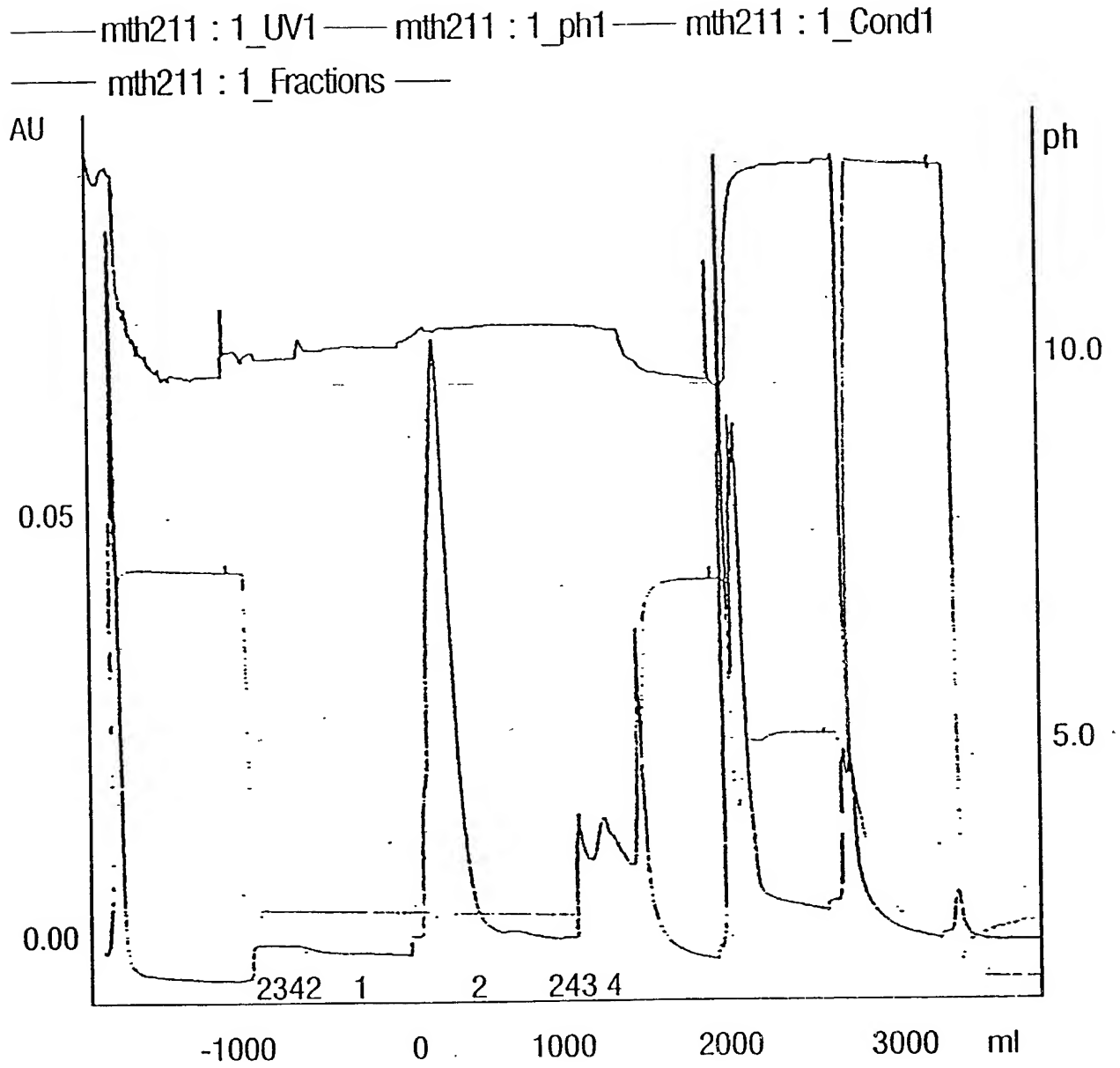


FIG. 14

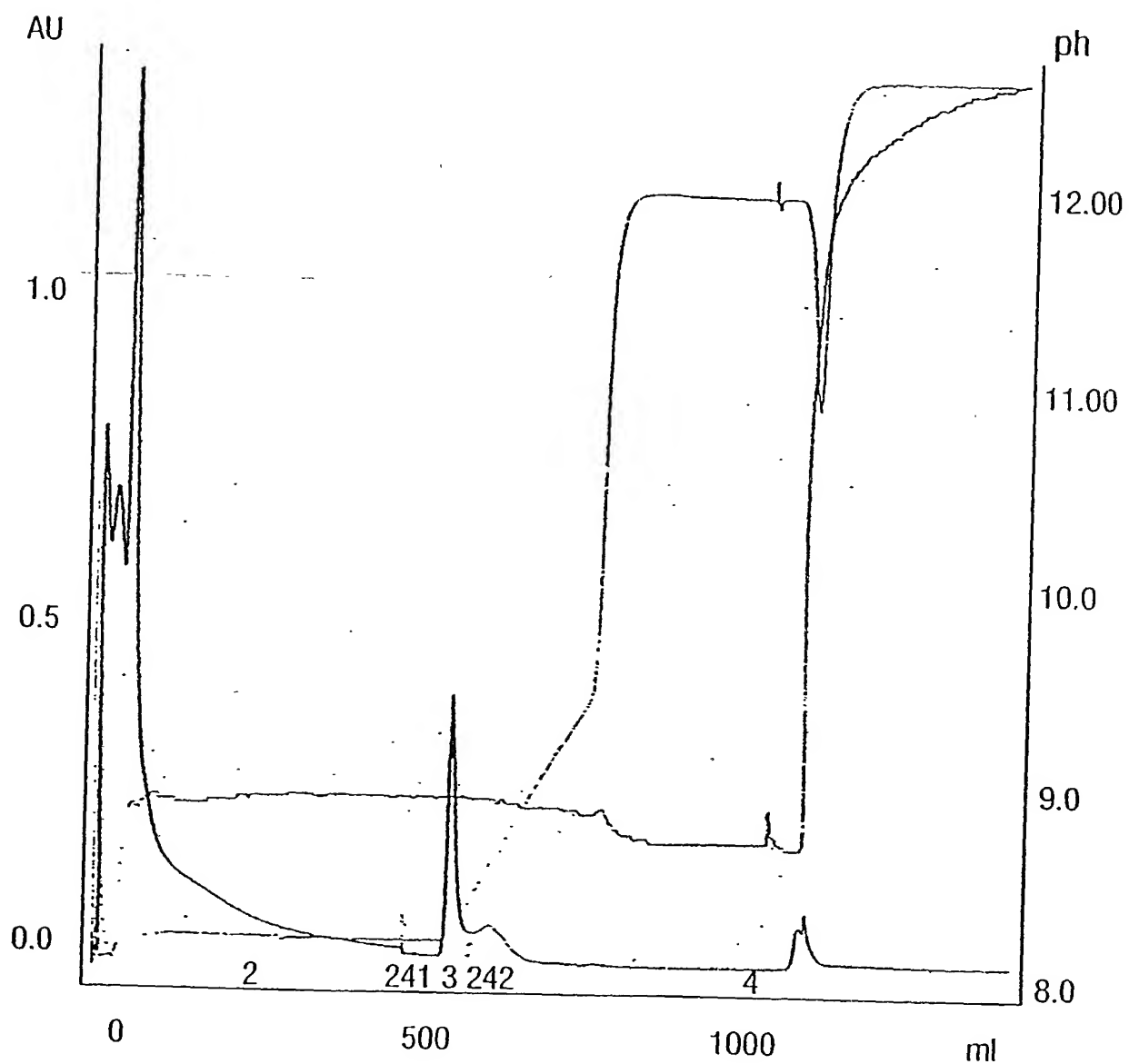


FIG. 15

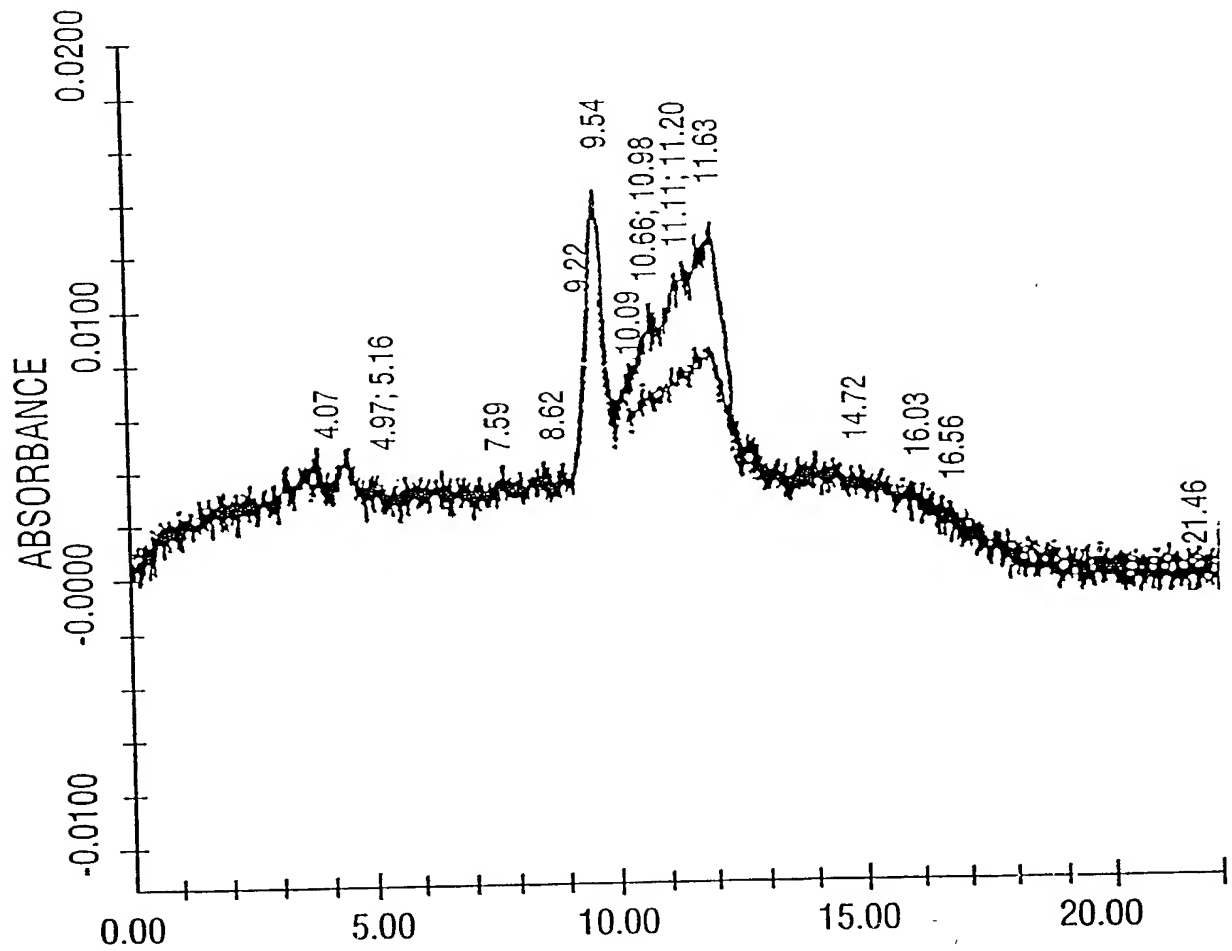


FIG. 16A

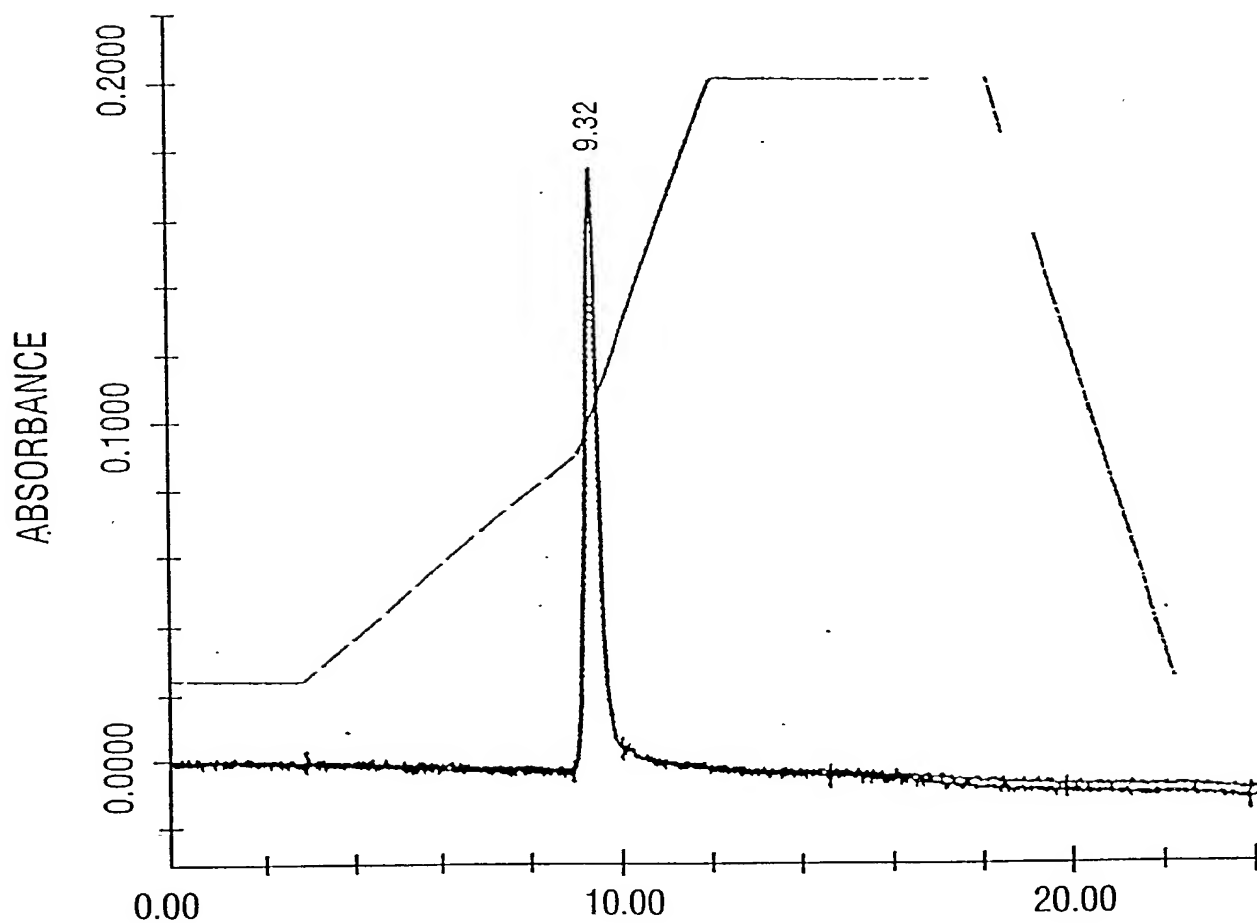


FIG. 16B

— mth412 : 1_UV1 — mth412 : 1_ph1 — mth412 : 1_Cond1
— mth412 : 1_Fractions —

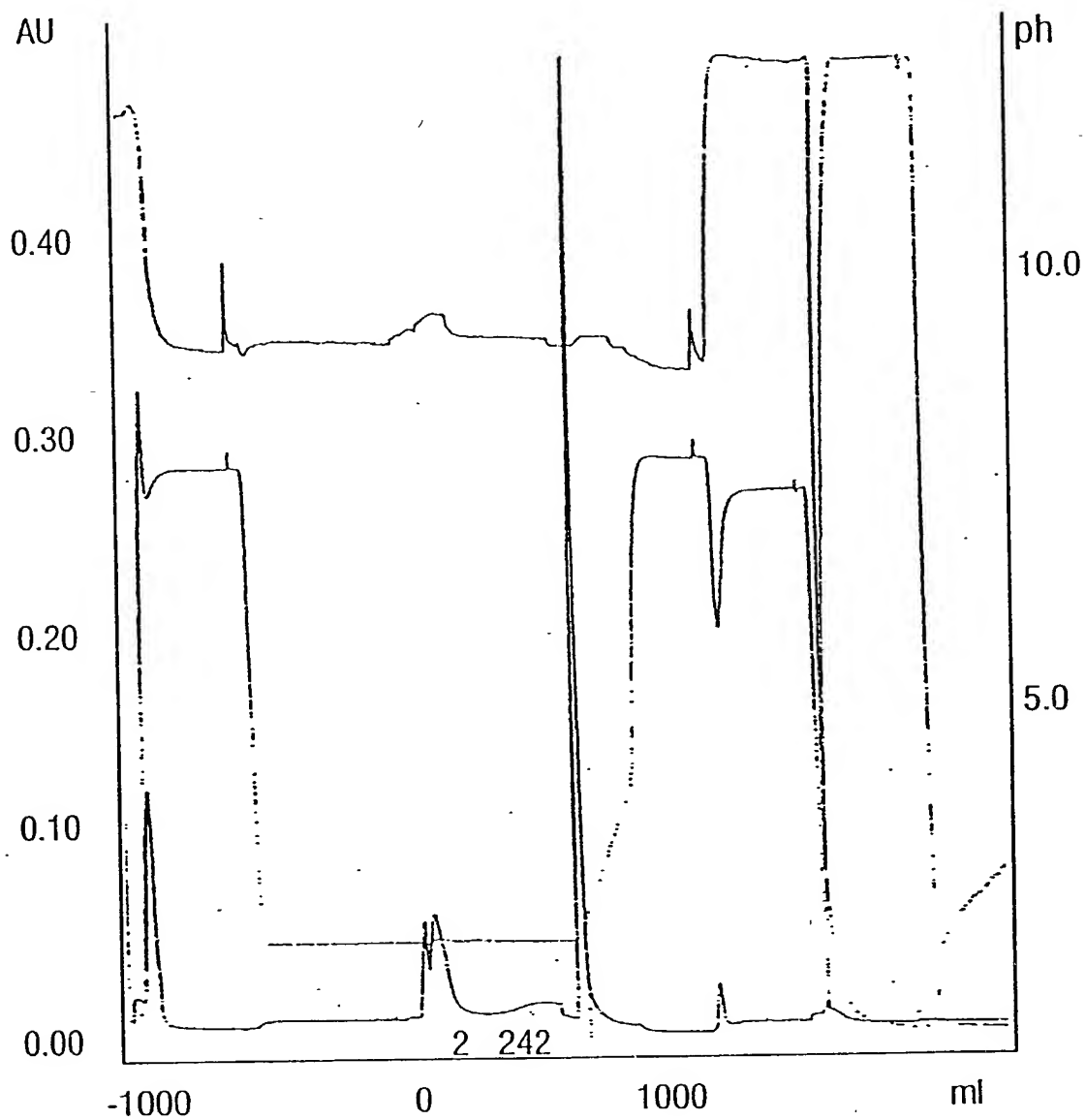


FIG. 17

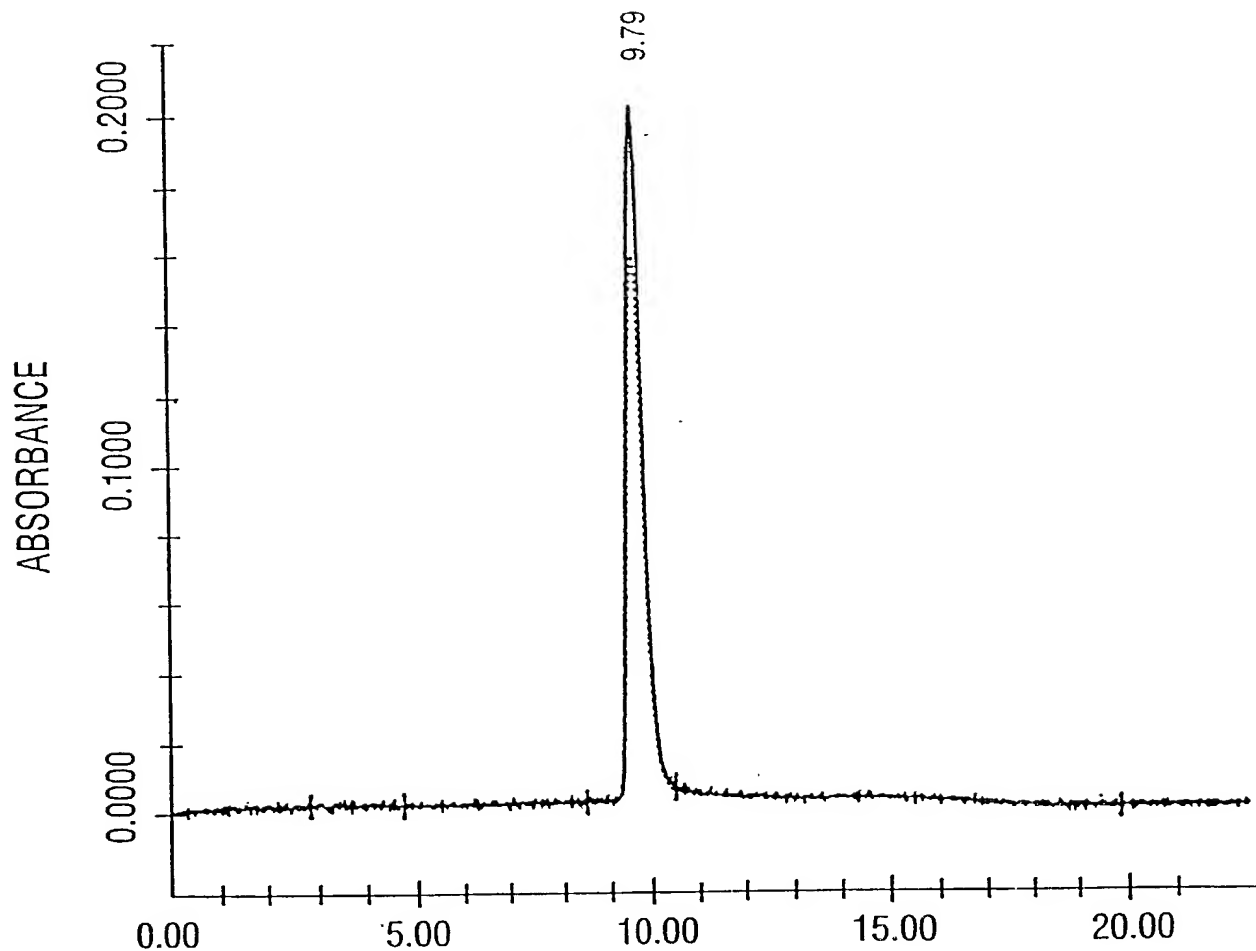


FIG. 18

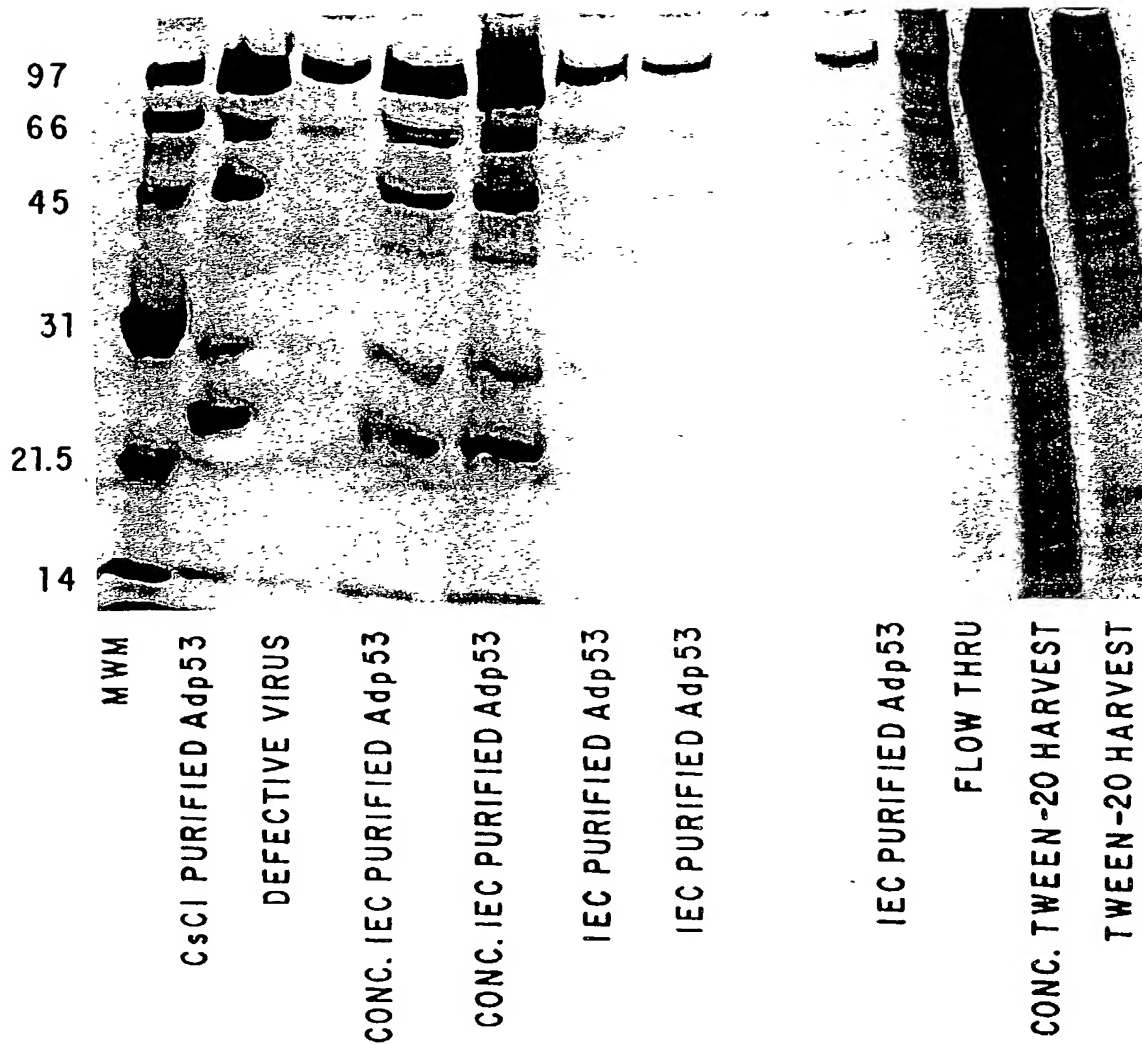


FIG.19A

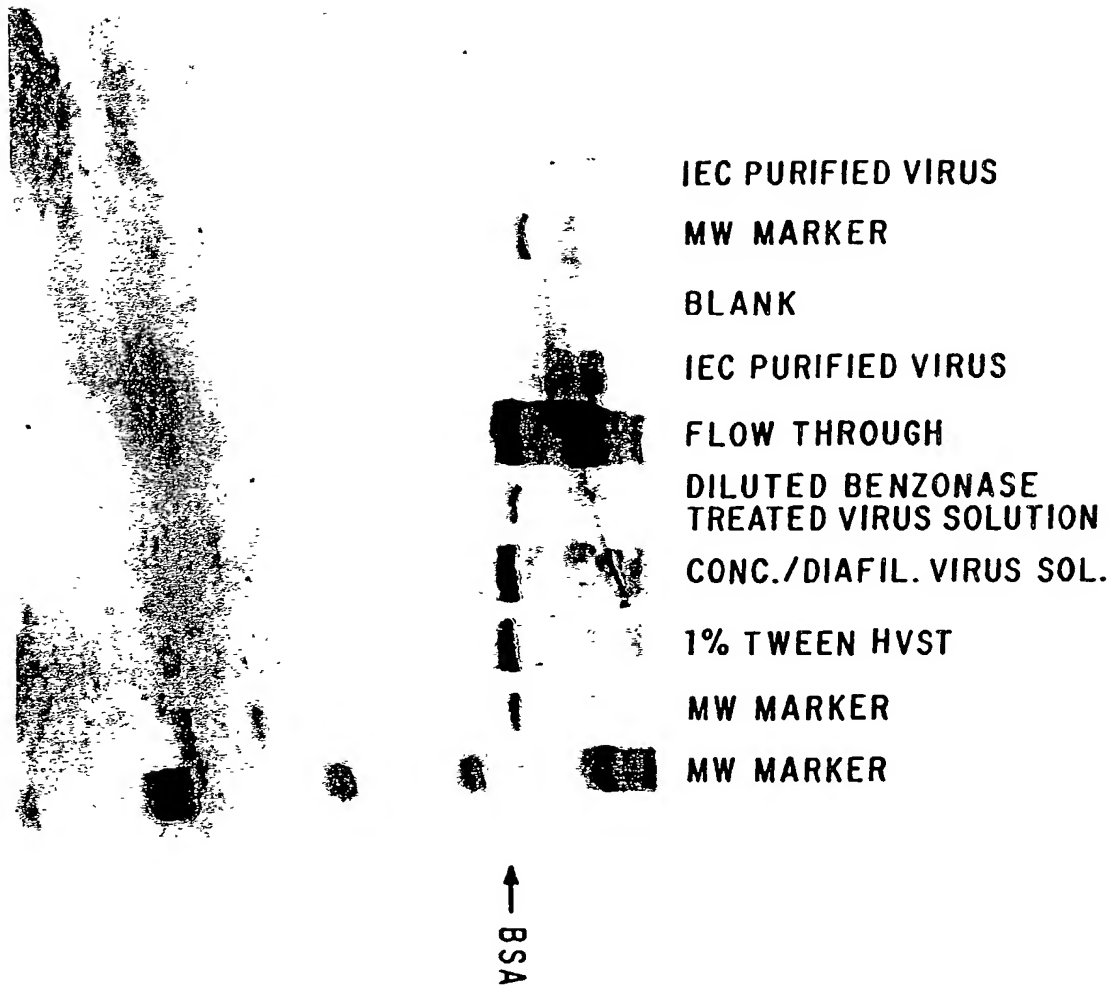


FIG.19B

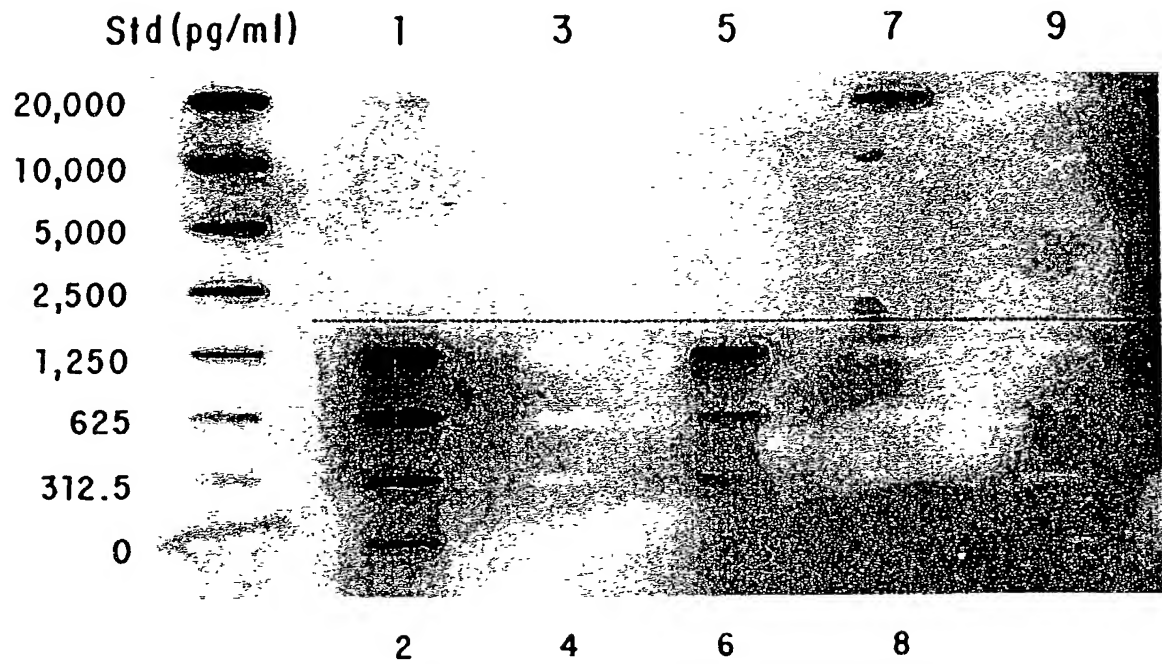


FIG.19C

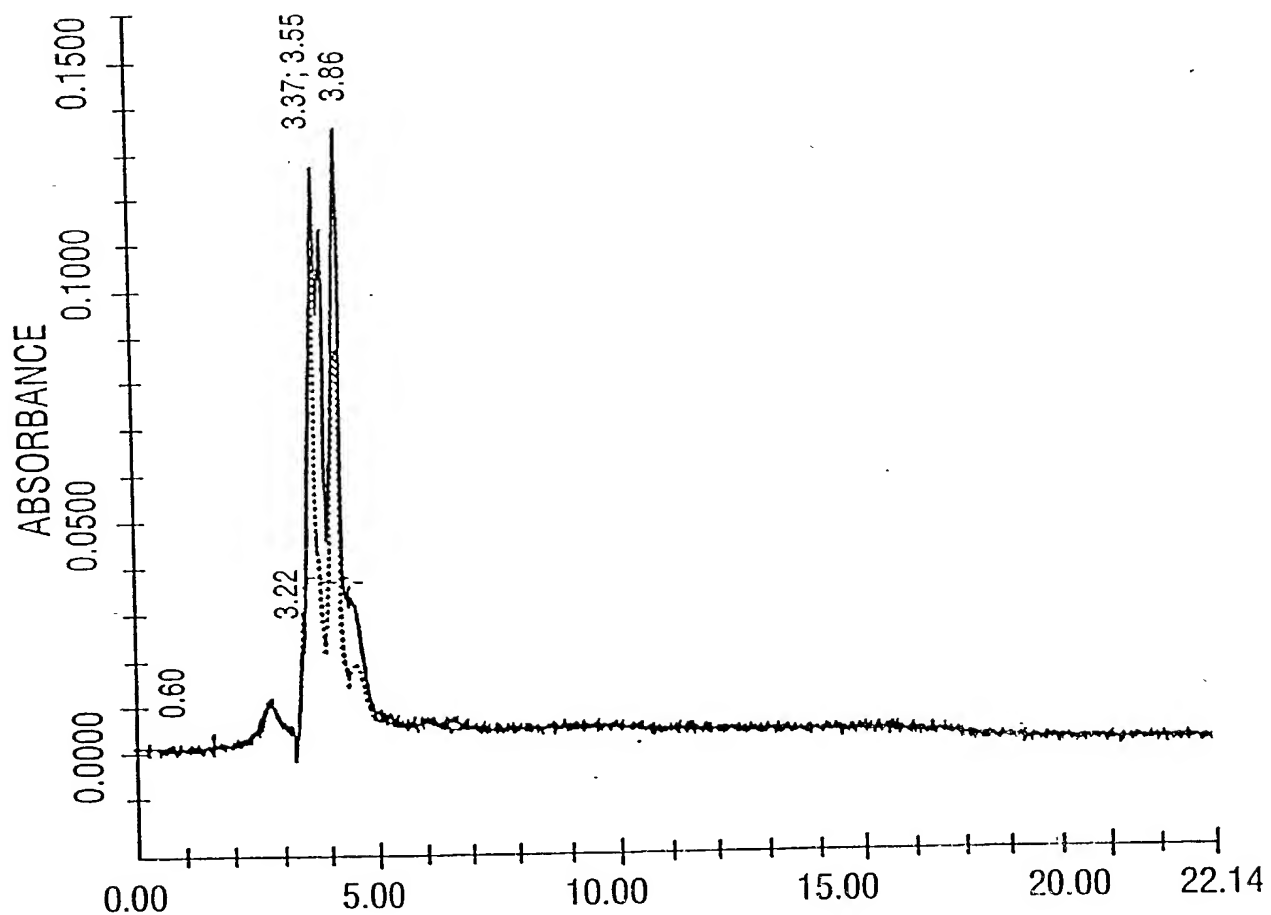


FIG. 20A

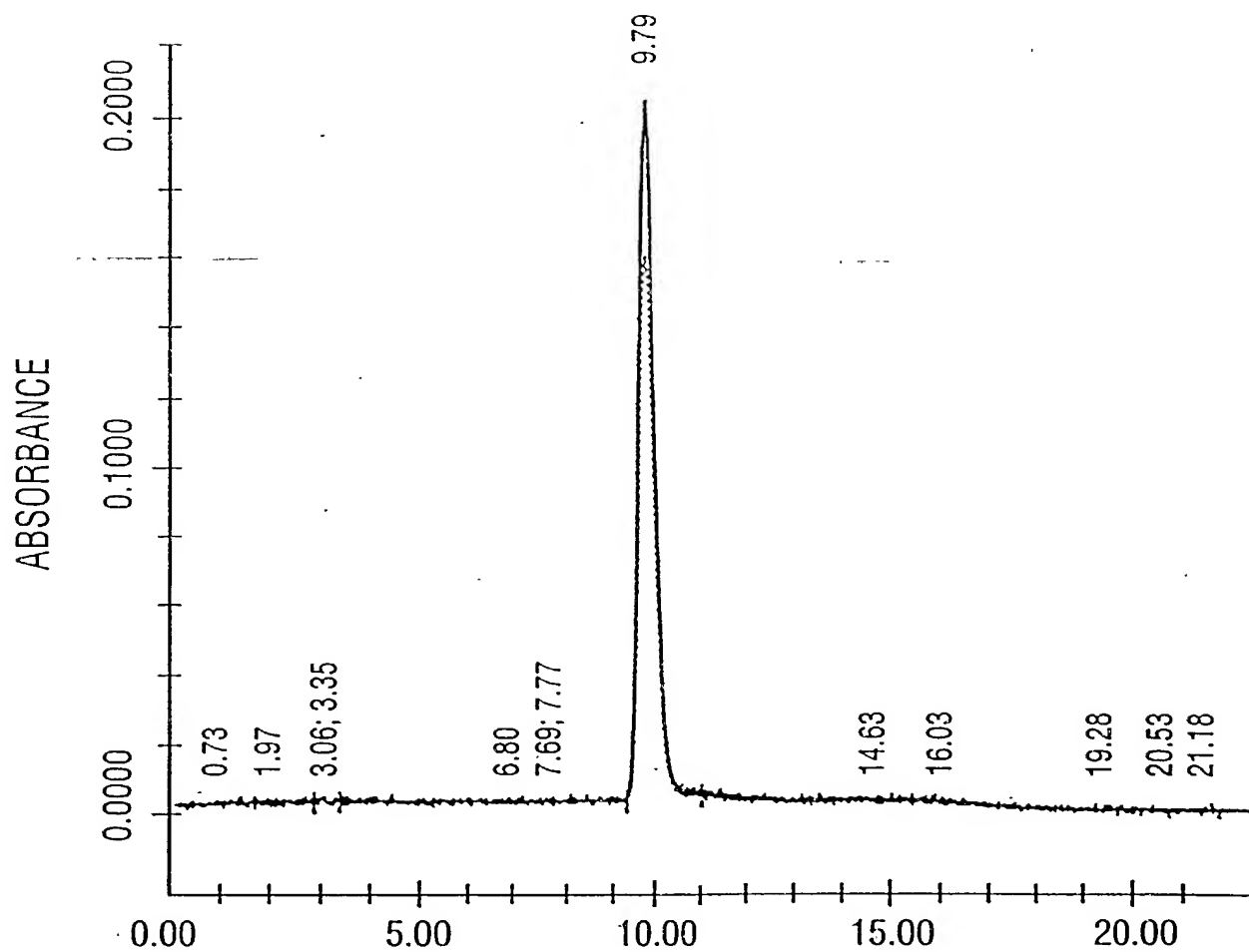


FIG. 20B

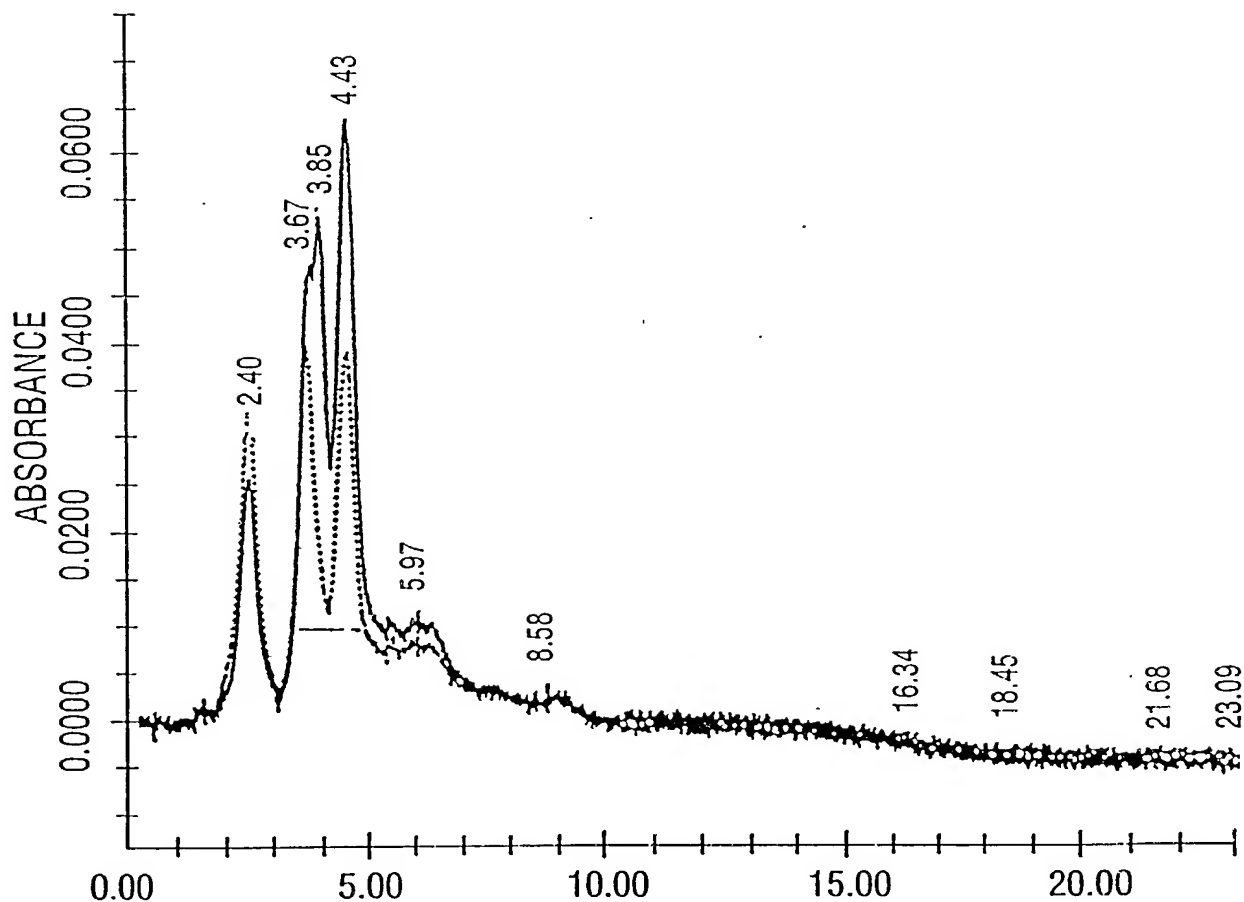


FIG. 20C

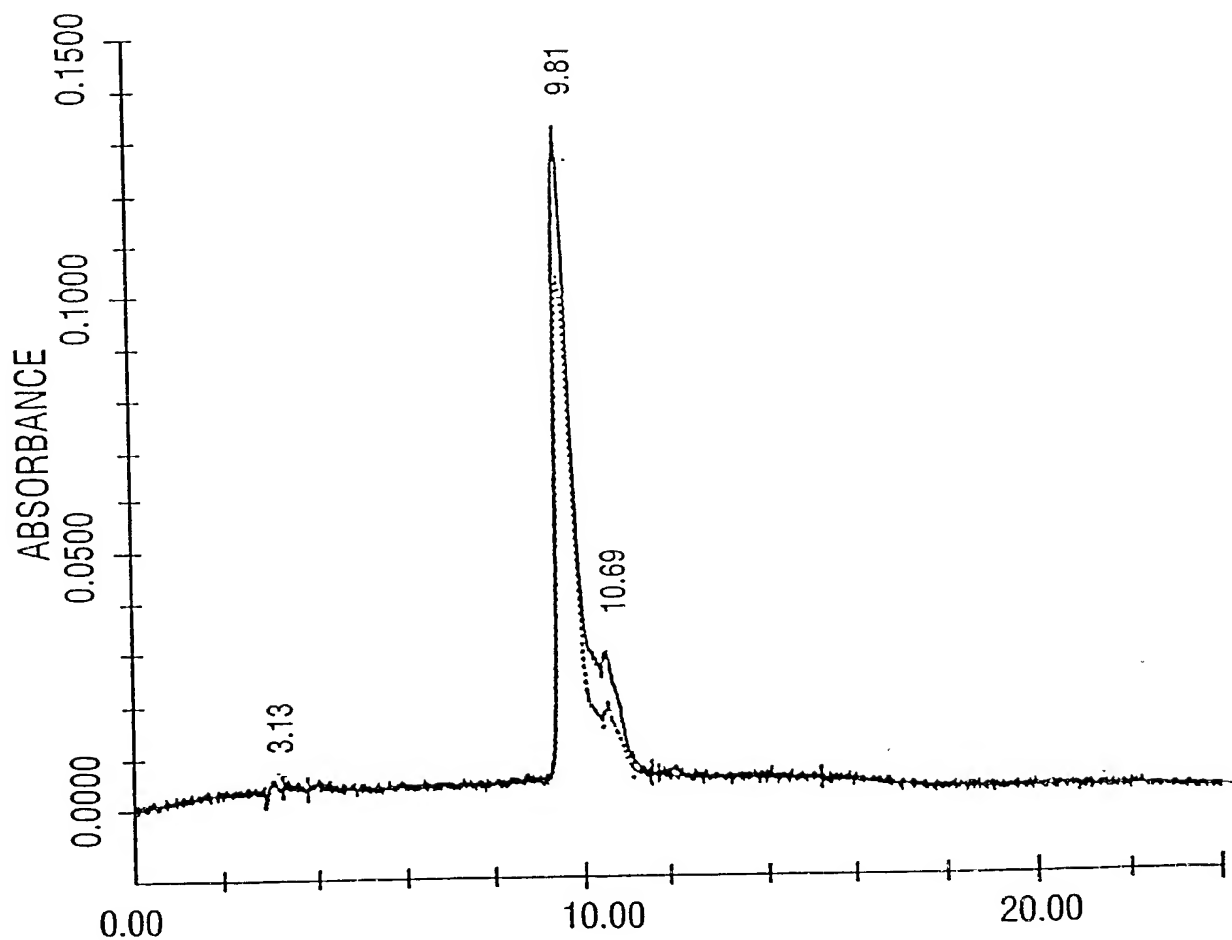


FIG. 20D

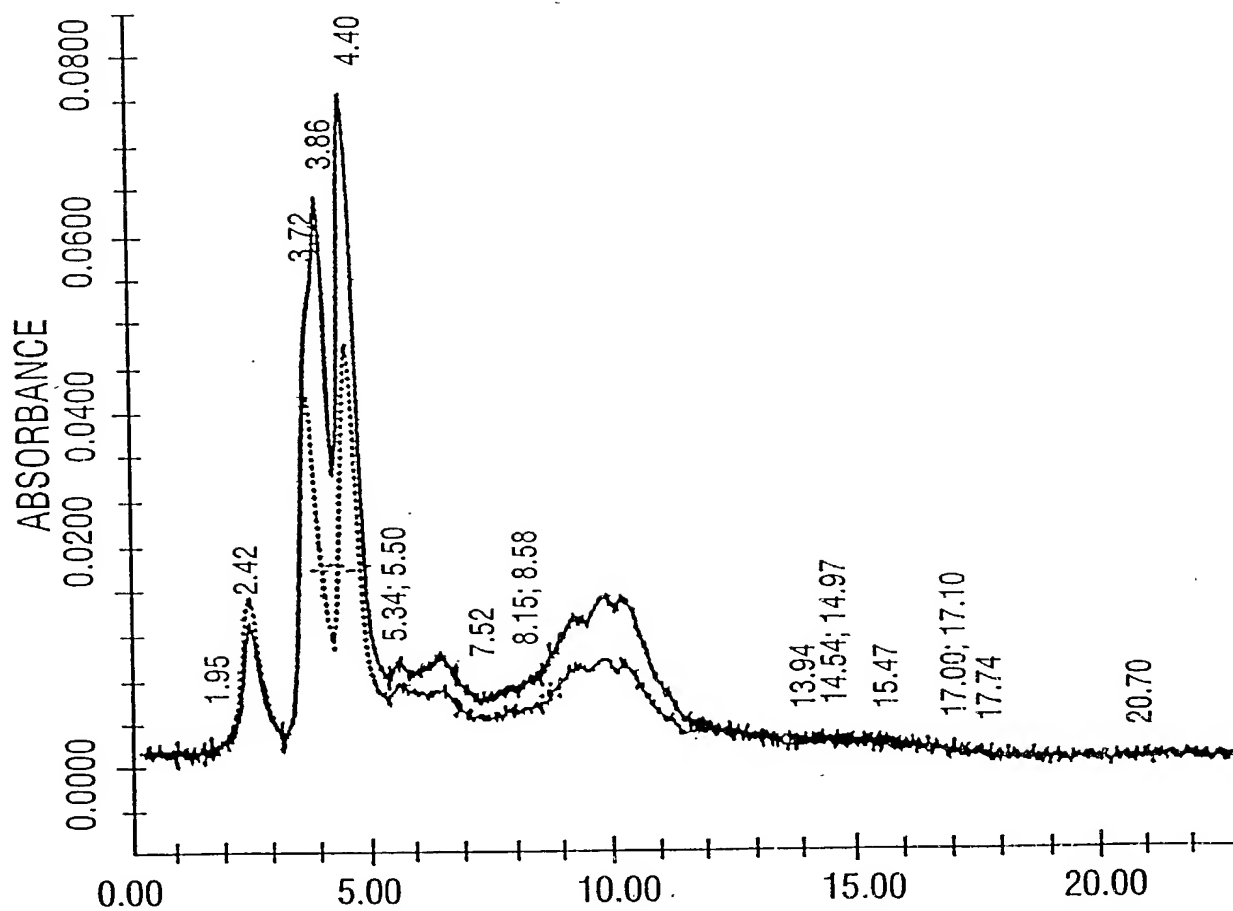


FIG. 20E

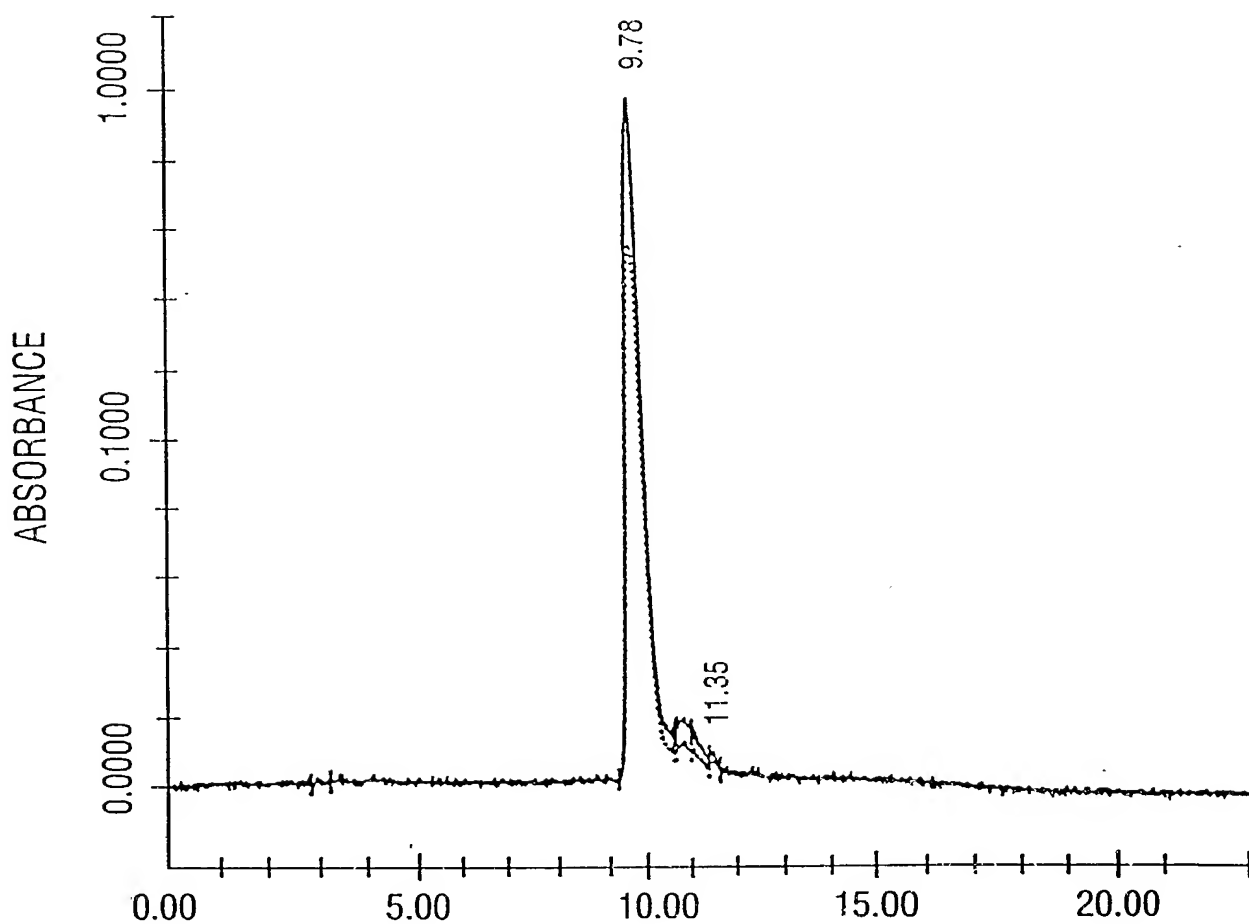
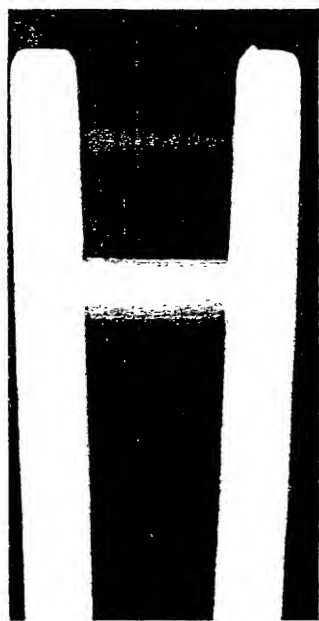


FIG. 20F



← DEFECTIVE VIRUS BAND (TITER: 3×10^7 PFU/ml)

← INTACT VIRUS BAND (TITER: 1×10^{11} PFU/ml)

FIG.21

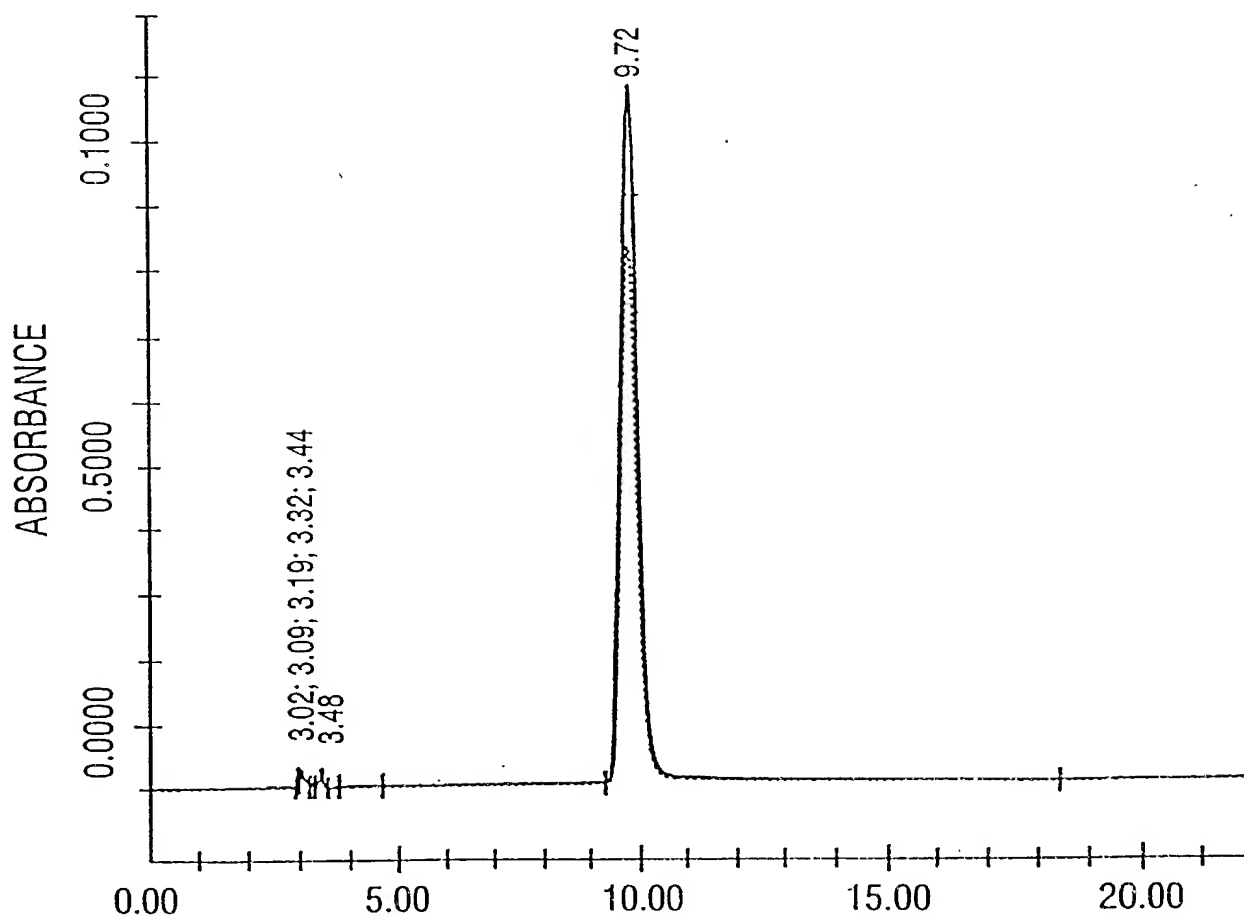


FIG. 22A

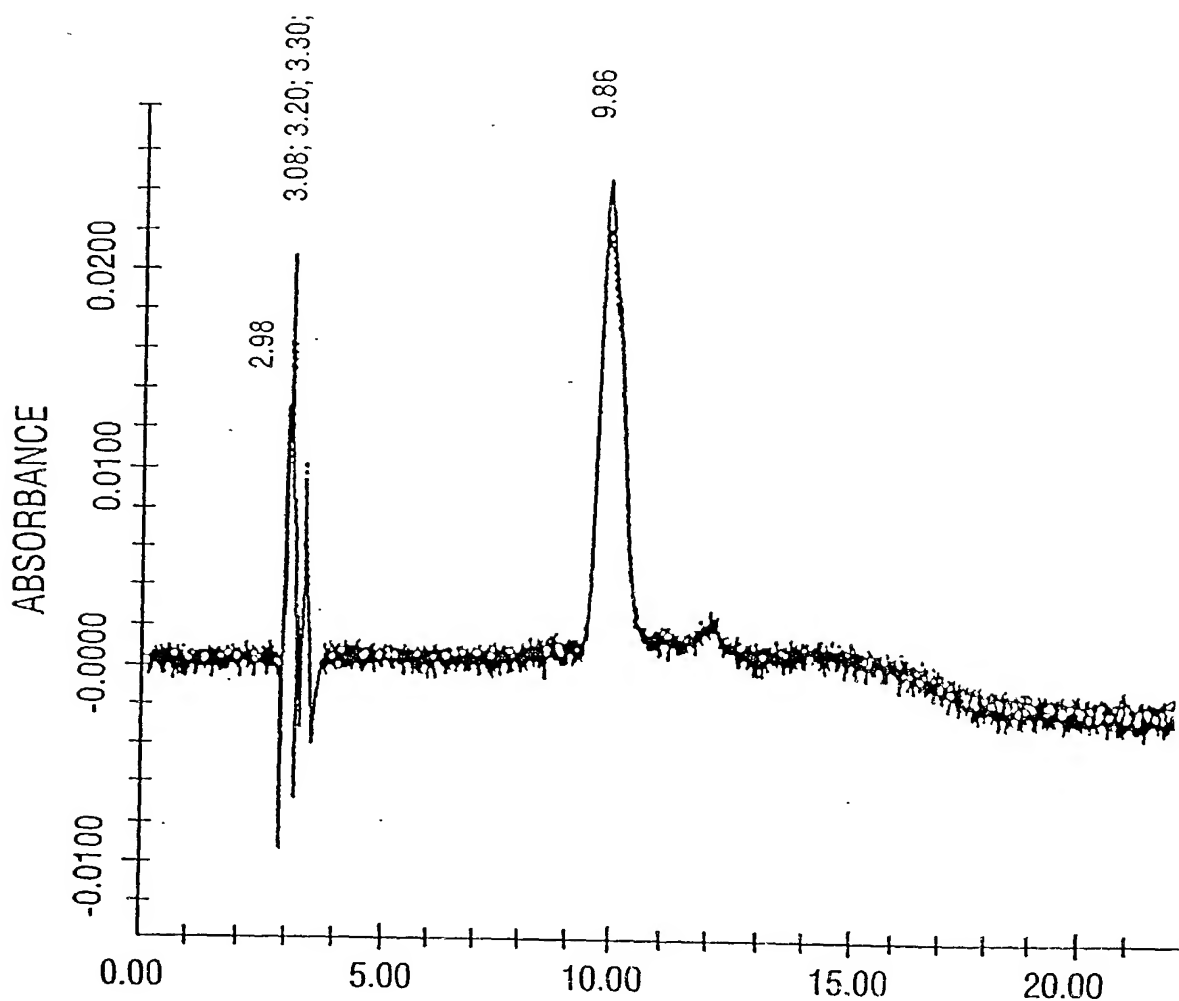


FIG. 22B

	TILTER (PFU/ML)	VOL. (ml)	YEILD (PFU)	RECOVERY (%)	STEP	ACC.
CUBE (LOW PERFUSION RATE ↓ KEEP GLUCOSE > 1g/L ↓ 1% TWEEN-20 BUFFER A ↓ HARVEST ↓ CLARIFICATION AND FILTRATION (0.22 UM) ↓ VIRUS SOLUTION	2.6x10 ⁹	1900	4.9x10 ¹²			
↓ CONC./DIAF. (10-FOLD CONC., DIAF ↓ INTO 1M NaCl BUFFER A ↓ CONC. SUP	2.5x10 ¹⁰	200	5x10 ¹²	102%		
↓ BENZONASE TREATMENT (O/N, RT, 100u/ml) ↓ TREATED SUP						
↓ DILUTED WITH WATER TO CONDUCTIVITY= 22-25 mS/cm ↓ DILUTED VIRUS SOLUTION	7x10 ⁹	700	4.9x10 ¹²	98%	100%	
↓ PURIFIED VIRUS	1.5x10 ¹⁰	240	3.6x10 ¹²	73%	73%	
↓ CONC./DIAF (5-FOLD CONC) ↓ FINAL PURIFIED PRODUCT	7x10 ¹⁰	50	3.5x10 ¹²	97%	71%	

FIG. 23